BATTERIES

DURACELL®

ALCALINE BATTERIES

	Type	Code	Description
	AAA	MM DUR LR03MN2400	Duracell Plus Alcaline Batteries AAA Pack 4 pcs
	AA	MM DUR LR6MN1500	Duracell Plus Alcaline Batteries AA Pack 4 pcs
	C	MM DUR LR14MN1400	Duracell Plus Alcaline Batteries C Pack 2 pcs
	D	MM DUR LR20MN1300	Duracell Plus Alcaline Batteries D Pack 2 pcs
	4.5V	MM DUR 3LR12MN1203	Duracell Plus Alcaline Battery 4.5V
	9V	MM DUR 6LR61MN1604	Duracell Plus Alcaline Battery 9V

TUDOR

TUDOR HIGH TECH

Code	Performance		Dimensions				Technical Features		
	Capacity Ah	CCA A (En)	BOX Type	L *(mm)*	W *(mm)*	H *(mm)*	Pole +	Pole Type	Base Connections
MM TUD TA472	47	450	LB1	207	175	175	R	1	B13
MM TUD TA530	53	540	L01	207	175	190	R	1	B13
MM TUD TA602	60	600	LB2	242	175	175	R	1	B13
MM TUD TA640	64	640	L02	242	175	190	R	1	B13
MM TUD TA722	72	720	LB3	278	175	175	R	1	B13
MM TUD TA770	77	760	L03	278	175	190	R	1	B13
MM TUD TA852	85	800	LB4	315	175	175	R	1	B13
MM TUD TA1000	100	900	L05	353	175	190	R	1	B13
MM TUD TA1050	105	850	LH4	313	175	205	R	1	B13
MM TUD TA386	38	300	B19	187	127	220	R	3 (small)	Korean B1
MM TUD TA387	38	300	B19	187	127	220	L	3 (small)	Korean B1
MM TUD TA456	45	390	B24	237	127	227	R	3 (small)	Korean B1
MM TUD TA457	45	390	B24	237	127	227	L	3 (small)	Korean B1
MM TUD TA654	65	580	D23	230	173	222	R	1	Korean B1
MM TUD TA655	65	580	D23	230	173	222	L	1	Korean B1
MM TUD TA754	75	630	D26	270	173	222	R	1	Korean B1
MM TUD TA755	75	630	D26	270	173	222	L	1	Korean B1

TUDOR

TUDOR TECHNICA

Code	Performance		Dimensions				Technical Features		
	Capacity Ah	CCA A (En)	BOX Type	L *(mm)*	W *(mm)*	H *(mm)*	Pole +	Pole Type	Base Connections
MM TUD TB440A	44	360	L01	207	175	190	R	1	B13
MM TUD TB356	35	240	B19	187	127	220	R	3	B00
MM TUD TB357	35	240	B19	187	127	220	R	3	B0
MM TUD TB357	35	240	B19	187	127	220	R	3	B00
MM TUD TB440	44	400	L00	175	175	190	R	1	B13
MM TUD TB442	44	420	LB1	207	175	175	R	1	B13/B14
MM TUD TB450	45	330	E02	220	135	225	R	1	B01
MM TUD TB451	45	330	E02	220	135	225	L	1	B01
MM TUD TB454	45	300	B24	237	127	227	R	1	B00
MM TUD TB455	45	300	B24	237	127	227	L	1	B00
MM TUD TB456	45	300	B24	237	127	227	R	3	B00
MM TUD TB457	45	300	B24	237	127	227	L	3	B00
MM TUD TB500	50	450	L01	207	175	190	R	1	B13
MM TUD TB501	50	450	L01	207	175	190	L	1	B13
MM TUD TB504	50	360	D20	200	173	222	R	1	Korean B1
MM TUD TB505	50	360	D20	200	173	222	L	1	B00
MM TUD TB542	54	520	LB2	242	175	175	R	1	B13/B14
MM TUD TB604	60	390	D23	230	173	222	R	1	B00
MM TUD TB605	60	390	D23	230	173	222	L	1	B00
MM TUD TB620	62	540	L02	242	175	190	R	1	B13
MM TUD TB621	62	540	L02	242	175	190	L	1	B13
MM TUD TB704	70	540	D26	270	173	222	R	1	B09
MM TUD TB705	70	540	D26	270	173	222	L	1	B09
MM TUD TB712	71	670	LB3	278	175	175	R	1	B13/B14
MM TUD TB740	74	680	L03	278	175	190	R	1	B13
MM TUD TB741	74	680	L03	278	175	190	L	1	B13
MM TUD TB800	80	700	L04	315	175	190	R	1	B13
MM TUD TB802	80	700	LB4	315	175	175	R	1	B13
MM TUD TB852	85	760	LB5	353	175	175	R	1	B13
MM TUD TB950	95	800	L05	353	175	190	R	1	B13
MM TUD TB1000	100	720	LH4	313	175	295	R	1	B13
MM TUD TB1004	100	720	D31	306	173	222	R	1	Korean B1
MM TUD TB1005	100	720	D31	306	173	222	L	1	Korean B1

TUDOR

TUDOR STANDARD

Code	Performance		Dimensions				Technical Features		
	Capacity Ah	CCA A (En)	BOX Type	L *(mm)*	W *(mm)*	H *(mm)*	Pole +	Pole Type	Base Connections
MM TUD TC400	40	320	L00	175	175	190	R	1	B13
MM TUD TC440	44	360	L01	207	175	190	R	1	B13
MM TUD TC550	55	460	LB2	242	175	190	R	1	B13
MM TUD TC700	70	640	L03	278	175	190	R	1	B13
MM TUD TC900	90	720	L05	278	175	190	R	1	B13

EXIDE BATTERIES

EXIDE PREMIUM

Code	Performance		Dimensions				Technical Features		
	Capacity Ah	CCA A (En)	BOX Type	L *(mm)*	W *(mm)*	H *(mm)*	Pole +	Pole Type	Base Connections
MM EXD EA386	38	300	B19	187	127	220	R	3 (small)	Korean B1
MM EXD EA387	38	300	B19	187	127	220	L	3 (small)	Korean B1
MM EXD EA456	45	390	B24	237	127	227	R	3 (small)	Korean B1
MM EXD EA457	45	390	B24	237	127	227	L	3 (small)	Korean B1
MM EXD EA472	47	450	LB1	207	175	175	0	R	B13
MM EXD EA530	53	540	L01	207	175	190	R	1	B13
MM EXD EA602	60	600	LB2	242	175	175	R	1	B13
MM EXD EA640	64	640	L02	242	175	190	R	1	B13
MM EXD EA654	65	580	D23	230	173	222	R	1	Korean B1
MM EXD EA655	65	580	D23	230	173	222	L	1	Korean B1
MM EXD EA722	72	720	LB3	278	175	175	R	1	B13
MM EXD EA754	75	630	D26	270	173	222	R	1	Korean B1
MM EXD EA755	75	630	D26	270	173	222	L	1	Korean B1
MM EXD EA770	77	760	L03	278	175	190	R	1	B13
MM EXD EA852	85	800	LB4	315	175	175	R	1	B13
MM EXD EA1000	100	900	L05	353	175	190	R	1	B13
MM EXD EA1005	100	850	D31	306	173	222	R	1	Korean B1

EXIDE BATTERIES

EXIDE EXCELL

Code	Performance		Dimensions				Technical Features		
	Capacity Ah	CCA A (En)	BOX Type	L *(mm)*	W *(mm)*	H *(mm)*	Pole +	Pole Type	Base Connections
MM EXD EB356	35	240	B19	187	127	220	R	3	B00
MM EXD EB357	35	240	B19	187	127	220	R	3	B00
MM EXD EB440	44	400	L00	175	175	190	R	1	B13
MM EXD EB440A	44	360	L01	207	175	190	R	1	B13
MM EXD EB442	44	420	LB1	207	175	175	R	1	B13/B14
MM EXD EB450	45	330	E02	220	135	225	R	1	B01
MM EXD EB451	45	330	E02	220	135	225	L	1	B01
MM EXD EB454	45	300	B24	237	127	227	R	1	B00
MM EXD EB455	45	300	B24	237	127	227	L	1	B00
MM EXD EB456	45	300	B24	237	127	227	R	3	B00
MM EXD EB457	45	300	B24	237	127	227	L	3	B00
MM EXD EB500	50	450	L01	207	175	190	R	1	B13
MM EXD EB501	50	450	L01	207	175	190	L	1	B13
MM EXD EB504	50	360	D20	200	173	222	R	1	Korean B1
MM EXD EB505	50	360	D20	200	173	222	L	1	B00
MM EXD EB542	54	520	LB2	242	175	175	R	1	B13/B14
MM EXD EB604	60	390	D23	230	173	222	R	1	B00
MM EXD EB605	60	390	D23	230	173	222	L	1	B00
MM EXD EB620	62	540	L02	242	175	190	R	1	B13
MM EXD EB621	62	540	L02	242	175	190	L	1	B13
MM EXD EB704	70	540	D26	270	173	222	R	1	B09
MM EXD EB705	70	540	D26	270	173	222	L	1	B09
MM EXD EB712	71	670	LB3	278	175	175	R	1	B13/B14
MM EXD EB740	74	680	L03	278	175	190	R	1	B13
MM EXD EB741	74	680	L03	278	175	190	L	1	B13
MM EXD EB800	80	700	L04	315	175	190	R	1	B13
MM EXD EB802	80	700	LB4	315	175	175	R	1	B13
MM EXD EB852	85	760	LB5	353	175	175	R	1	B13
MM EXD EB950	95	800	L05	353	175	190	R	1	B13
MM EXD EB1000	100	720	LH4	313	175	295	R	1	B13
MM EXD EB1004	100	720	D31	306	173	222	R	1	Korean B1
MM EXD EB1005	100	720	D31	306	173	222	L	1	Korean B1

EXIDE CLASSIC

Code	Performance		Dimensions				Technical Features		
	Capacity Ah	CCA A (En)	BOX Type	L *(mm)*	W *(mm)*	H *(mm)*	Pole +	Pole Type	Base Connections
MM EXD EC400	40	320	L00	175	175	190	R	1	B13
MM EXD EC440	44	360	L01	207	175	190	R	1	B13
MM EXD EC550	55	460	LB2	242	175	190	R	1	B13
MM EXD EC700	70	640	L03	278	175	190	R	1	B13
MM EXD EC900	90	720	L05	278	175	190	R	1	B13

EXIDE AGM

Code	Volt	Capacity at 20 h (ah)	CCA	Pole *(+)*	Length *(mm)*	Width *(mm)*	Hight *(mm)*	Weight *(kg)*
MM EXD EK700	12	70	760	R	278	175	190	20,90
MM EXD EK800	12	80	800	R	315	175	190	23,90
MM EXD EK900	12	90	900	R	353	175	190	26,80

EXIDE GEL

Code	Volt	Capacity at 20 h (ah)	CCA	Pole *(+)*	Length *(mm)*	Width *(mm)*	Hight *(mm)*	Weight *(kg)*
MM EXD G 60	12	60	510	R	278	175	190	21,2
MM EXD G 80	12	80	640	R	353	175	190	26,8
MM EXD G 85	12	85	510	L	330	171	236	30,0
MM EXD G 110	12	110	760	-	286	269	230	38,7
MM EXD G 120	12	120	850	L	513	189	223	40,7
MM EXD G 120S	12	120	750	R	345	175	290	40,5
MM EXD G 140	12	140	1000	L	513	223	225	47,8
MM EXD G 210	12	210	1200	L	518	276	242	70,0
MM EXD G 180/6	6	196	900	R	244	190	275	29,0
MM EXD G 200/6	6	200	950	R	244	190	275	32,0

YUMICRON 12V BATTERIES

YB16CL-B

YB30CL-B

Code	Battery Type	Capacity AH (10H-R)	Dimensions – Inches (± 1/16 in)			Dimensions – Millimeters (± 2 mm)		
			L	W	H	L	W	H
MM YUA YB16CL-B	YB16CL-B	19	6 7/8	4	6 7/8	175	100	175
MM YUA YB30CL-B	YB30CL-B	30	6 5/8	5 3/16	7 9/16	168	132	192.2

YUASA

YUMICRON 12V BATTERIES

Code	Battery Type	Capacity AH (10H-R)	Dimensions – Inches (± 1/16 in)			Dimensions – Millimeters (± 2 mm)		
			L	W	H	L	W	H
MM YUA YB2.5L-C	YB2.5L-C	2.5	3 3/16	2 3/4	4 1/8	80	70	105
MM YUA YB2.5L-C-1	YB2.5L-C-1	2.5	3 3/16	2 3/4	4 1/8	80	70	105
MM YUA YB3L-A	YB3L-A	3	3 7/8	2 1/4	4 3/8	98	56	110
MM YUA YB3L-B	YB3L-B	3	3 7/8	2 1/4	4 3/8	98	56	110
MM YUA YB4L-A	YB4L-A	4	4 3/4	2 3/4	3 5/8	120	70	92
MM YUA YB4L-B	YB4L-B	4	4 3/4	2 3/4	3 5/8	120	70	92
MM YUA YB5L-B	YB5L-B	5	4 3/4	2 3/8	5 1/8	120	60	130
MM YUA YB7-A	YB7-A	8	5 5/16	3	5 1/4	135	75	133
MM YUA YB7B-B	YB7B-B	7	6	2 3/8	5 1/8	150	60	130
MM YUA YB7C-A	YB7C-A	8	5 1/8	3 9/16	4 1/2	130	90	114
MM YUA YB7L-B	YB7L-B	8	5 5/16	3	5 1/4	135	75	133
MM YUA YB9A-A	YB9A-A	9	5 5/16	3	6 1/8	135	75	155
MM YUA YB9L-A2	YB9L-A2	9	5 5/16	3	5 1/2	135	75	139
MM YUA YB9-B	YB9-B	9	5 5/16	3	5 1/2	135	75	139
MM YUA YB9L-B	YB9L-B	9	5 5/16	3	5 1/2	135	75	139
MM YUA YB10A-A2	YB10A-A2	11	5 5/16	3 9/16	6 1/8	135	90	155
MM YUA YB10L-A2	YB10L-A2	11	5 5/16	3 9/16	5 3/4	135	90	145
MM YUA YB10L-B	YB10L-B	11	5 5/16	3 9/16	5 3/4	135	90	145
MM YUA YB10L-B2	YB10L-B2	11	5 5/16	3 9/16	5 3/4	135	90	145
MM YUA YB12A-A	YB12A-A	12	5 5/16	3 3/16	6 5/16	134	80	160
MM YUA YB12A-A W/S •	YB12A-A W/S •	12	5 5/16	3 3/16	6 5/16	134	80	160
MM YUA YB12A-A W/TA **	YB12A-A W/TA **	12	5 5/16	3 3/16	6 5/16	134	80	160
MM YUA YB12AL-A	YB12AL-A	12	5 5/16	3 3/16	6 5/16	134	80	160
MM YUA YB12AL-A2*	YB12AL-A2*	12	5 5/16	3 3/16	6 5/16	134	80	160
MM YUA YB12A-B	YB12A-B	12	5 5/16	3 3/16	6 5/16	134	80	160
MM YUA YB12B-B2	YB12B-B2	12	6 5/16	3 9/16	5 1/8	160	90	130
MM YUA YB12C-A	YB12C-A	12	5 5/16	3 9/16	6 7/8	134	80	175
MM YUA YB14-A2	YB14-A2	14	5 5/16	3 1/2	6 9/16	134	89	166
MM YUA YB14A-A1	YB14A-A1	14	5 5/16	3 1/2	6 15/16	134	89	176
MM YUA YB14A-A2	YB14A-A2	14	5 5/16	3 1/2	6 15/16	134	89	176
MM YUA YB14L-A1	YB14L-A1	14	5 5/16	3 1/2	6 9/16	134	89	166
MM YUA YB14L-A2	YB14L-A2	14	5 5/16	3 1/2	6 9/16	134	89	166
MM YUA YB14L-A2 W/S •	YB14L-A2 W/S •	14	5 5/16	3 1/2	6 9/16	134	89	166
MM YUA YB14L-B2	YB14L-B2	14	5 5/16	3 1/2	6 9/16	134	89	166
MM YUA YB14-B2	YB14-B2	14	5 5/16	3 1/2	6 9/16	134	89	166
MM YUA SYB14L-A2 ◆	SYB14L-A2 ◆	14	5 5/16	3 1/2	6 9/16	134	89	166
MM YUA YB16AL-A2	YB16AL-A2	16	8 1/8	2 13/16	6 7/16	207	71.5	164
MM YUA HYB16A-AB	HYB16A-AB	16	6	3 5/8	7 1/16	151	91	180
MM YUA YB16-B	YB16-B	19	6 7/8	4	6 1/8	175	100	155
MM YUA YB16-B-CX	YB16-B-CX	19	6 7/8	4	6 1/8	175	100	155
MM YUA YB16HL-A-CX	YB16HL-A-CX	19	6 7/8	4	6 1/8	175	100	155
MM YUA YB16L-B	YB16L-B	19	6 7/8	4	6 1/8	175	100	155
MM YUA YB16B-A	YB16B-A	16	6 5/16	3 9/16	6 3/8	160	90	161
MM YUA YB16B-A1*	YB16B-A1*	16	6 5/16	3 9/16	6 3/8	160	90	161
MM YUA YB16C-B	YB16C-B	19	6 7/8	4	6 7/8	175	100	175
MM YUA YB16CL-B	YB16CL-B	19	6 7/8	4	6 7/8	175	100	175
MM YUA YB18-A	YB18-A	18	7 1/8	3 9/16	6 3/8	180	90	162
MM YUA YB18L-A	YB18L-A	18	7 1/8	3 9/16	6 3/8	180	90	162

Code	Battery Type	Capacity AH (10H-R)	Dimensions – Inches (± 1/16 in)			Dimensions – Millimeters (± 2 mm)		
			L	W	H	L	W	H
MM YUA Y50-N18A-A	Y50-N18A-A	20	8 1/8	3 9/16	6 15/16	205	90	176
MM YUA Y50-N18L-A	Y50-N18L-A	20	8 1/8	3 9/16	6 3/8	205	90	162
MM YUA Y50-N18L-A-CX	Y50-N18L-A-CX	20	8 1/8	3 9/16	6 3/8	205	90	162
MM YUA Y50-N18L-A3	Y50-N18L-A3	20	8 1/8	3 9/16	6 3/8	205	90	162
MM YUA SY50-N18L-AT ◆	SY50-N18L-AT ◆	20	8 1/8	3 9/16	6 3/8	205	90	162
MM YUA Y60-N24-A	Y60-N24-A	28	7 1/4	4 7/8	6 7/8	184	124	175
MM YUA YB30L-B	YB30L-B	30	6 5/8	5 3/16	6 15/16	168	132	176
MM YUA YB30CL-B	YB30CL-B	30	6 5/8	5 3/16	7 9/16	168	132	192.2
MM YUA 51814	51814	19 ***	7 7/16	3 1/4	6 7/8	186	82	171
MM YUA 51913	51913	19 ***	7 7/16	3 1/4	6 7/8	186	82	171
MM YUA 53030	53030	30 ***	7 7/16	5 1/8	6 7/8	186	130	171

* Includes terminal adaptor for converting to top mount.
** When ordering this battery, specify terminal adaptor.
*** DIN Standard @ 20 hr. rate.
• When ordering this battery, specify sensor.
◆ This battery includes a sensor.

PERSONAL WATERCRAFT (PWC) APPLICATIONS

CC	Model	Year	High Performance Maintenance Free	Maintenance Free VRLA AGM	YuMicron
AQUA-JET CO.					
430	Aqua-Jet SX1	'91	–	–	YB16-B
432	Aqua-Jet Sx1	'89-'90	–	–	YB16-B
ARCTIC CAT					
640	Tiger Shark	'97-'99	YTX14AHL-BS	–	YB14L-A2
770	Tiger Shark	'97-'99	YTX14AHL-BS	–	YB14L-A2
BRP (SEA-DOO)					
1500	GTI, GTX, RXP, RXT, WAKE	-'12	–	–	YB30CL-B
1500	GTX 4-Tec, RXP	'03-'07	–	–	YB30CL-B
	All Models	'88-'93	YTX20HL-BS	YTX20L-BS	YB16L-B
	All Other Models	'94-'07	YTX20HL-BS-PW	–	YB16CL-B
780	3D	-'07	YTX20HL-BS-PW	–	YB16CL-B
HONDA					
1235	AquaTrax F/R-12, F/R-12X	'02-'09	YTX20HL-BS	YTX20L-BS	–
1470	AquaTrax F-15, F-15X	'03-'12	YTX20HL-BS	YTX20L-BS	–
KAWASAKI (JET SKI)					
300	JS300 TS, SX	'86-'91	YTX20HL-BS-PW	–	YB16CL-B
400	JS400	'76	YTX20HL-BS	YTX20L-BS	YB16L-B
440	JS440	'87-'92	YTX20HL-BS-PW	–	YB16CL-B
	JS440	'77-'86	YTX20HL-BS	YTX20L-BS	YB16L-B
550	JS550	'82-'85	YTX20HL-BS	YTX20L-BS	YB16L-B
	JS550, SX	'86-'95	YTX20HL-BS-PW	–	YB16CL-B
650	JF650 TS	'89-'96	YTX20HL-BS-PW	–	YB16CL-B
	JF650 X2	'86-'95	YTX20HL-BS-PW	–	YB16CL-B
	JL650 SC	'91-'95	YTX20HL-BS-PW	–	YB16CL-B
	JS650 SX	'87-'95	YTX20HL-BS-PW	–	YB16CL-B
750	JH750 B1-b3	'93-'95	YTX20HL-BS-PW	–	YB16CL-B
	JH750 E1,F2,G1,G2	'95-'99	YTX20HL-BS	YTX20L-BS	–
	JH750 SS, ST, Xi, XiR	'92-'99	YTX20HL-BS-PW	–	YB16CL-B
	JH750 ST, Zxi	'95-'97	YTX20HL-BS	YTX20L-BS	–
	JH750 SX,ZX	'92-'95	YTX20HL-BS-PW	–	YB16CL-B
	JS750 SX, ZX	'92-'95	YTX20HL-BS-PW	–	YB16CL-B

CC	Model	Year	High Performance Maintenance Free	Maintenance Free VRLA AGM	YuMicron	Conventional
KAWASAKI (JET SKI) (continued)						
	JS750 SXi, SXi Pro	'95-'02	YTX20HL-BS	YTX20L-BS	–	–
	JT750 STS, STX	'96-'98	YTX20HL-BS	YTX20L-BS	–	–
800	JS800 SX-R	'03-'12	YTX20HL-BS	YTX20L-BS	–	–
900	JH900 ZXi	'95-'97	YTX20HL-BS	YTX20L-BS	–	–
	JT900 STS, STX	'97-'05	YTX20HL-BS	YTX20L-BS	–	–
1100	JH1100 ZXi	'96-'03	YTX20HL-BS	YTX20L-BS	–	–
	JH1100-B Ultra 130	'01-'04	YTX20HL-BS	YTX20L-BS	–	–
	JT1100 STX	'97-'03	YTX20HL-BS	YTX20L-BS	–	–
1200	JH1200-A, B Ultra 150	'99-'05	YTX20HL-BS	YTX20L-BS	–	–
	JT1200-A-B, C, STX-R, STX-12F	'02-'07	YTX20HL-BS	YTX20L-BS	–	–
1500	JT1500-A, STX, STX-15F	'04-'12	YTX20HL-BS	YTX20L-BS	–	–
	JT1500B, C, 250X, Ultra LX, 260(L)X, 300(L)X	'07-'12	YTX20HL-BS	YTX20L-BS	–	–
POLARIS						
All	All Models	All	YTX20HL-BS-PW	–	YB16CL-B	–
S.O.S. MARINE MFG						
All	All Models	All	TX20H-BS	YTX20-BS	YB16-B-CX	YB16-B
ULTRANAUTICS						
800	All Models	'87-'92	–	–	53030	–
	Wet Bike	'85-'86	–	–	–	YHD-12H
1250	Jet Star1250 (Boat)	'88-'90	–	–	53030	–
	Jet Star1260 (Boat)	'91	–	–	53030	–
WET JET INTERNATIONAL						
All	All Models	All	YTX20H-BS	YTX20-BS	YB16-B-CX	YB16-B
YAMAHA						
All	All Wave Runner Models	'87-'08	YTX20HL-BS-PW	–	YB16CL-B	–
700	Superjet	'09-'12	YTX20HL-BS-PW	–	YB16CL-B	–
1100	VX	'09-'12	YTX20HL-BS-PW	–	YB16CL-B	–
1800	FX, FZR, FZS, VXS, VXR	'09-'12	YTX20HL-BS-PW	–	YB16CL-B	–

BATTERY CHARGERS

MASTERVOLT

IVO SMART BATTERY CHARGER

MODEL	IVO Smart 12/10	IVO Smart 12/15-2	IVO Smart 24/6
Code	MM MST 43011000	MM MST 43011500	MM MST 43020600
Charge current	10A	15A	6A
Number of outlets	1	2 equal outlets	1
Charge characteristic	IUoUo / 3-stage / automatical / DIN 41772		
Charge voltage Absorption (25°C)	14.25V	14.25V	28.5V
Charge voltage Float / wet (25°C)	13.25V	13.25V	26.5V
Charge voltage Float / gel (25°C)	13.8V	13.8V	27.6V
Input voltage range AC*	180-250V AC	180-250V AC	180-250V AC
Max. absorption time	6 hours (adjustable)	6 hours (adjustable)	6 hours (adjustable)
Frequency	50/60Hz	50/60Hz	50/60Hz
Full load consumption (230V AC)	170VA	212VA	170VA
Power factor / cos phi	1	1	1
DC consumption with connected battery	<10mA	<10mA	<10mA
Automatic voltage compensation	none	auto sense	none
Diode compensation	0.6V / remove jumper		
Temperature range	0°C to +60°C, fully safeguarded against overheating and short circuiting		
Cooling	natural	variofan	natural
Battery capacity (recommendation)	25-200 Ah	50-250 Ah	6-120 Ah
Suitable as power supply without battery	yes	yes	yes
Dimensions, hxwxd. in mm	50x180x121	50x206x121	50x180x121
Protection degree	IP65	IP21	IP65
AC cable 1.5 metre	2x 0.75 mm2	3x 0.75 mm2	2x 0.75 mm2
DC cable 1.5 metre	2.5 mm2	4 mm2	2.5 mm2
Weight	1 kg	1 kg	1 kg
Harmonised standards	generic emission and disturbances standard: EN 55014-1:1993, generic harmonic current emissions: EN61000-3-3:1995, generic & safety accreditations immunity standard: EN 55014-2:1997, electrostatic discharge: EN 61000-4-2:1995, electrical fast transients: EN 61000-4-4:1995, surge transient: EN61000-4-5:1995, conducted radio freq. disturbances: EN61000-4-6:1996, voltage dips: EN 61000-4-11:1994		

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MASTERVOLT

CHARGE MASTER

CHARGE MASTER 12V MODEL	12/10-1	12/15-2	12/25-3	12/35-3	12/50-3	12/70-3	12/100-3
Code	MM MST 43011000	MM MST 43011500	MM MST 44010250	MM MST 44010350	MM MST 44010500	MM MST 44010700	MM MST 44011000
Nominal output voltage	12 V	12 V	12 V	12 V	12 V	12 V	12 V
Total charge current	10 A at 14.25 V	15 A at 14.25 V	25 A at 13.25 V	35 A at 14.4 V	50 A at 14.4 V	70 A at 14.4 V	100 A at 14.4 V
Number of battery outlets	1	2	3	3	3	3	3
Charge current second output	n.a.	15 A	25 A	35 A	50 A	10 A	10 A
Charge current third output	n.a.	n.a.	25 A	35 A	50 A	10 A	10 A
Recommended battery capacity	25-100 Ah	30-150 Ah	50-250 Ah	70-350 Ah	100-500 Ah	140-700 Ah	200-1000 Ah
Nominal input voltage	230 V (180-265 V) –50/60 Hz		120/230 V (90-265 V) – 50/60 Hz		120/230 V (90-265 V) – 50/60 Hz		
AC connection	socket	socket	2 mtr AC cable	connector strips	connector strips	connector strips	connector strips
Supplies your system without battery	no		yes		yes		
Display/read-out	1 LED		LED display		LED display	LCD display	
Dimensions, hxwxd	180x121x50 mm 7.1x4.8x2 inch	206x121x50 mm 8.1x4.8x2 inch	234x132x60 mm 9.2x5.2x2.4 inch	291x210x131 mm 11.5x8.3x5.2 inch	291x210x131 mm 11.5x8.3x5.2 inch	362x277x150 mm 14.3x11x5.9 inch	
Weight	1 kg / 2.2 lbs		1,8 kg / 4 lbs	4 kg / 9 lbs	4 kg / 9 lbs	7 kg / 16 lbs	
Fastening	screw	screw	screw	with the supplied mounting bracket or 4x screw f or wall mounting or 4x screw for floor installation			
Approvals	CE, E-mark, ABYC A-31		CE, E-mark, ABYC A-31, SAE J1171/ ISO 8846 ignition protected		CE, E-mark, ABYC A-31, SAE J1171/ISO 8846 ignition protected		

CHARGE MASTER 24V MODEL	24/6-1	24/12-3	24/20-3	24/30-3	24/40-3	24/60-3	24/80-3	24/100-3
Code	MM MST 43020600	MM MST 44020120	MM MST 44020200	MM MST 44020300	MM MST 44020400	MM MST 44020600	MM MST 44020800	MM MST 44021000
Nominal output voltage	24 V	24 V	24 V	24 V	24 V	24 V	24 V	24 V
Total charge current	6 A at 28.5 V	12 A at 26.5 V	20 A at 28.8 V	30 A at 28.8 V	40 A at 28.8 V	60 A at 28.8 V	80 A at 28.8 V	100 A at 28.8 V
Number of battery outlets	1	3	3	3	3	3	3	3
Charge current second output	n.a.	12 A	20 A	30 A	10 A	10 A	10 A	10 A
Charge current third output	n.a.	12 A	20 A	30 A	10 A	10 A	10 A	10 A
Recommended battery capacity	25-70 Ah	24-120 Ah	40-200 Ah	60-300 Ah	80-400 Ah	120-600 Ah	160-800 Ah	200-1000 Ah
Nominal input voltage	230 V (180-265 V) 50/60 Hz	120/230 V (90-265 V) – 50/60 Hz			120/230 V (90-265 V) – 50/60 Hz			
AC connection	socket	2 mtr AC cable	connector strips	connector strips	connector strips	connector strips	connector strips	connector strips
Supplies your system without battery	no	yes	yes	yes	yes	yes	yes	yes
Display/read-out	1 LED	LED display			LCD display			
Dimensions, hxwxd	180x121x50mm 7.1x4.8x2 inch	234x132x60 mm 9.2x5.2x2.4 in.	291x210x131 11.5x8.3x5.2 inch		362x277x150 14.3x11x5.9 inch		432x277x150 17x11x5.9 inch	
Weight	1 kg / 2.2 lbs	1.8 kg / 4 lbs	4 kg / 9 lbs		7 kg / 16 lbs		8 kg / 18 lbs	
Fastening	4x screw	4x screw	with the supplied mounting bracket or 4x screw for wall mounting or 4x screw for floor installation					
Approvals	CE, E-mark, ABYC A-31	CE, E-mark, ABYC A-31, SAE J1171/ISO 8846 ignition protected			CE, E-mark, ABYC A-31, SAE J1171/ISO 8846 ignition protected			

MASTERVOLT

"MASS SINE" SINE WAVE INVERTERS

MODEL	Mass Sine 12/800	Mass Sine 12/1200	Mass Sine 12/2000	Mass Sine 24/800	Mass Sine 24/1500
230 V code	MM MST 24010800	MM MST 24011200	MM MST 24012000	MM MST 24020800	MM MST 24021500
120 V* code	n.a.	n.a.	MM MST 25012000*	n.a.	n.a.
Nominal battery voltage	12 V	12 V	12 V	24 V	24 V
P30 power Tamb= 25 °C, cos phi 1	800 VA	1200 VA	2000 VA	800 VA	1500 VA
Nom. power Tamb= 40 °C, cos phi 1	650 VA	1000 VA	1800 VA	650 VA	1200 VA
Peak load	1600 VA	2400 VA	4000 VA	1600 VA	2900 VA
Max. effi ciency	92%	92%	92%	92%	92%
Dimensions, hxwxd	313x187x82 mm 12.3x7.4x3.2 inch	340x261x144 mm 13.4x10.3x5.7 inch	420x318x130 mm 16.5x12.5x5.1 inch	325x220x111 mm 12.8x8.7x4.4 inch	340x261x144 mm 13.4x10.3x5.7 inch
Weight	3.9 kg / 8.6 lbs	6 kg / 13.2 lbs	9.4 kg / 20.7 lbs	3.9 kg / 8.6 lbs	6 kg / 13.2 lbs
Minimum battery capacity	>100 Ah	>150 Ah	>200 Ah	>50 Ah	>150 Ah
Input current (nominal load)	68 A	130 A	200 A	34 A	70 A
No load power consumption 'stand-by'	65 mA/0.8 W	43 mA/0.5 W	50 mA/0.6 W	35 mA/0.8 W	25 mA/0.6 W
No load power consumption 'low energy' (208 V)	410 mA/4.9 W	420 mA/4.5 W	420 mA/5 W	200 mA/4.9 W	180 mA/4.5 W
No load power consumption 'high power' (230 V)	470 mA/5.6 W	450 mA/5 W	480 mA/6 W	240 mA/5.6 W	200 mA/5 W
Min. DC cable size	25 mm2	50 mm2	70 mm2	16 mm2	25 mm2

MODEL	Mass Sine 24/2500	Mass Sine 24/5000	Mass Sine 24/10kVa	Mass sine 24/15kVa
230 V code	MM MST 24022500	MM MST 24011200	MM MST 24012000	MM MST 24020800
120 V* code	MM MST 25022500*	n.a.	n.a.	n.a.
Nominal battery voltage	24 V	24 V	24 V	24 V
P30 power Tamb= 25 °C, cos phi 1	2500 VA	5000 VA	10 kVA	1500 VA
Nom. power Tamb= 40 °C, cos phi 1	2000 VA	4000 VA	8 kVA	1300 VA
Peak load	5000 VA	10000 VA	20 kVA	3000 VA
Max. effi ciency	92%	90%	92%	92%
Dimensions, hxwxd	420x318x130 mm 16.5x12.5x5.1 inch	475.5x318x254 mm 18.7x10.3x10 inch	2xC4 + C5 enclosure	3xC4 + C5 enclosure
			C4= 460.5x318x143 mm / C5= 475.5x318x254 mm	
Weight	9.7 kg / 21.4 lbs	19 kg / 41.9 lbs	44 kg / 97 lbs	55 kg / 121.3 lbs
Minimum battery capacity	>200 Ah	>400 Ah	>500 Ah	>800 Ah
Input current (nominal load)	120 A	240 A	4x 120 A	6x 120 A
No load power consumption 'stand-by'	25 mA/0.6 W	n.a.	<10 W, 412 mA	<10 W, 412 mA
No load power consumption 'low energy' (208 V)	225 mA/5.4 W	n.a.	n.a.	n.a.
No load power consumption 'high power' (230 V)	250 mA/6 W	250 mA/6 W	150 W	180 W
Min. DC cable size	50 mm2	2x 50 mm2	4x 50 mm2	6x 50 mm2

* 15% load reduction for the 120 V/60 Hz Mass Sine models.

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UNINTERRUPTIBLE POWER SUPPLY

APC SMART-UPS RT 1000VA 230V - MARINE

APC Marine,700 Watts /1000 VA,Input 230V /Output 230V, Interface Port DB-9 RS-232, SmartSlot, Extended runtime model, Rack Height 2 U. Includes: CD with software, Smart UPS signalling RS-232 cable, User Manual

Code: MM APC SURT1000XLIM

Output	
Output Power Capacity	700 Watts / 1000 VA
Max Configurable Power	700 Watts / 1000 VA
Nominal Output Voltage	230V
Output Voltage Note	Configurable for 220 : 230 or 240 nominal output voltage
Efficiency at Full Load	88.0%
Output Voltage Distortion	Less than 3%
Output Frequency (sync to mains)	50/60 Hz +/- 3 Hz user adjustable +/- 0.1
Other Output Voltages	220, 240
Crest Factor	3 : 1
Topology	Double Conversion Online
Waveform Type	Sine wave
Output Connections	(6) IEC 320 C13 (2) IEC Jumpers
Bypass	Built-in Bypass

Input	
Nominal Input Voltage	230V
Input Frequency	50/60 Hz +/- 5 Hz (auto sensing)
Input Connections	IEC-320 C14
Cord Length	2.5 meters
Input voltage range for main operations	180 - 280V
Input voltage adjustable range for mains operation	100 - 280V
Other Input Voltages	220, 240

Physical	
Maximum Height	432.00 mm
Maximum Width	85.00 mm
Maximum Depth	483.00 mm

APC SMART-UPS RT 2200VA 230V - MARINE

APC Marine,1540 Watts /2200 VA,Input 230V /Output 230V, Interface Port RJ-45 Serial, Smart-Slot, Extended runtime model, Rack Height 3 U. Includes: CD with software, Documentation CD, Installation guide, Rack mounting hardware, Smart UPS signalling RS-232 cable, User Manual.

Code: MM APC SURTD2200XLIM

Output	
Output Power Capacity	1540 Watts / 2200 VA
Max Configurable Power	1540 Watts / 2200 VA
Nominal Output Voltage	230V
Output Voltage Note	Configurable for 220 : 230 or 240 nominal output voltage
Output Voltage Distortion	Less than 3%
Output Frequency (sync to mains)	50/60 Hz +/- 3 Hz user adjustable +/- 0.1
Other Output Voltages	220, 240
Crest Factor	3 : 1
Topology	Double Conversion Online
Waveform Type	Sine wave
Output Connections	(8) IEC 320 C13 (2) IEC 320 C19
Bypass	Internal Bypass (Automatic and Manual)

Input	
Nominal Input Voltage	230V
Input Frequency	50/60 Hz +/- 5 Hz (auto sensing)
Input Connections	British BS1363A IEC-320 C20 Schuko CEE 7/EU1-16P
Cord Length	2.5 meters
Input voltage range for main operations	180 - 280V
Input voltage adjustable range for mains operation	100 - 280V
Other Input Voltages	220, 240

Physical	
Maximum Height	432.00 mm
Maximum Width	130.00 mm
Maximum Depth	660.00 mm

APC SMART-UPS RT 3000VA 230V - MARINE

APC Marine,2100 Watts /3000 VA,Input 230V /Output 230V, Interface Port RJ-45 Serial, Smart-Slot, Extended runtime model, Rack Height 3 U. Includes: CD with software, Smart UPS signalling RS-232 cable, User Manual.

Code: MM APC SURTD3000XLIM

Output	
Output Power Capacity	2100 Watts / 3000 VA
Max Configurable Power	2100 Watts / 3000 VA
Nominal Output Voltage	230V
Output Voltage Note	Configurable for 220 : 230 or 240 nominal output voltage
Output Voltage Distortion	Less than 3%
Output Frequency (sync to mains)	50/60 Hz +/- 3 Hz user adjustable +/- 0.1
Other Output Voltages	220, 240
Crest Factor	3 : 1
Topology	Double Conversion Online
Waveform Type	Sine wave
Output Connections	(8) IEC 320 C13 (2) IEC 320 C19 (2) IEC Jumpers
Bypass	Internal Bypass (Automatic and Manual)

Input	
Nominal Input Voltage	230V
Input Frequency	50/60 Hz +/- 5 Hz (auto sensing)
Input Connections	British BS1363A IEC-320 C20 Schuko CEE 7/EU1-16P
Cord Length	2.44 meters
Input voltage range for main operations	180 - 270V
Input voltage adjustable range for mains operation	100 - 280V
Other Input Voltages	220, 240

Physical	
Maximum Height	432.00 mm
Maximum Width	130.00 mm
Maximum Depth	660.00 mm

APC SMART-UPS RT 6000VA 230V - MARINE

APC Marine,4200 Watts /6000 VA,Input 230V /Output 230V, Interface Port DB-9 RS-232, Smart-Slot, Extended runtime model, Rack Height 3 U. Includes: CD with software, Smart UPS signalling RS-232 cable, User Manual.

Code: MM APC SURT6000XLIM

Output	
Output Power Capacity	4200 Watts / 6000 VA
Max Configurable Power	4200 Watts / 6000 VA
Nominal Output Voltage	230V
Output Voltage Note	Configurable for 220 : 230 or 240 nominal output voltage
Efficiency at Full Load	92.0%
Output Voltage Distortion	Less than 3%
Output Frequency (sync to mains)	50/60 Hz +/- 3 Hz user adjustable +/- 0.1
Other Output Voltages	220, 240
Crest Factor	3 : 1
Topology	Double Conversion Online
Waveform Type	Sine wave
Output Connections	(8) IEC 320 C13 (2) IEC 320 C19 (2) IEC Jumpers
Bypass	Internal Bypass (Automatic and Manual)

Input	
Nominal Input Voltage	230V
Input Frequency	50/60 Hz +/- 5 Hz (auto sensing)
Input Connections	Hard Wire 3-wire
Input voltage range for main operations	180 - 270V
Input voltage adjustable range for mains operation	100 - 280V
Other Input Voltages	220, 240

Physical	
Maximum Height	432.00 mm
Maximum Width	130.00 mm
Maximum Depth	660.00 mm

BATTERY SWITCHES

HEAVY DUTY MKII MARINE BATTERY SWITCH

Made of black polycarbonate and fixed on a flange. Equipped with PVC watertight cap and double key. CE type-tested in compliance with directive 94/25/CE (EN ISO 28846). Compulsory device to mount on positive cable, ISO 10133 standards. Two keys included.

Code	Max capacity - for 5 seconds	Max capacity - continuous	Ø flange *(mm)*	Spare key
MM OSC 1438510	2500 A	280 A	66	14.385.34

MARINE BATTERY SWITCH

Made of black polycarbonate, flange fixing; fitted with watertight rubber cap and splash-proof key. Model with nickel plated brass key pin, very sturdy.
"CE" type-teste[1: in compliance with directive 94/25/CE (EN ISO 28846). Obligatory for mounting on a positive cable, under ISO 10133 standards.

Code	Max capacity - for 5 seconds	Max capacity - continuous	Ø flange	Spare key
MM OSC 1438603	1000 A	100 A	60	14.386.33

HEAVY DUTY MARINE BATTERY SWITCH

Made of black polycarbonate, flange fixing; fitted with watertight rubber cap and nickel-plated splash-proof key. "CE" type-tested in compliance with directive 94/25/CE (EN ISO 28846). Obligatory for mounting on a positive cable, under ISO 10133 standards.

Code	Max capacity - for 5 seconds	Max capacity - continuous	Ø flange	Spare key
MM OSC 1438500	2500 A	280 A	66	14.385.33

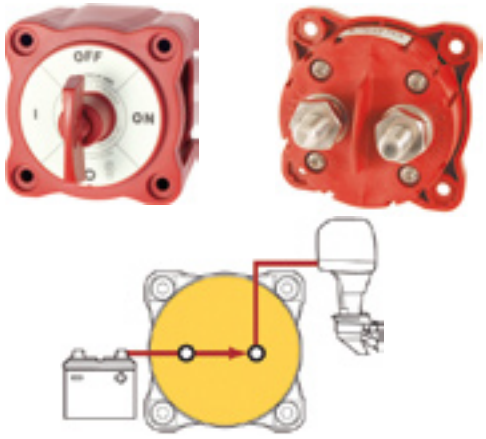
BATTERY SWITCH

Made of black polycarbonate, flange fixing; extra version with AISI 316 stainless steel body, collar mounting with double threaded screw nut, very sturdy; equipped with watertight PVC cap and splash-proof nickel-plated brass key. CE type-tested in compliance with directive 94/25/CE (EN ISO 28846). Obligatory for mounting on a positive cable, under ISO 10133 standards.

Code	Description	Max capacity - for 5 seconds	Max capacity - continuous	Ø flange
MM OSC 1438602	Switch	2500 Amp	280 Amp	66
MM OSC 1438634	Spare key			

BLUE SEA SYSTEMS

M-SERIES MINI ON-OFF BATTERY SWITCH WITH KEY - RED



Switch set to ON

Code: MM BLS 6005

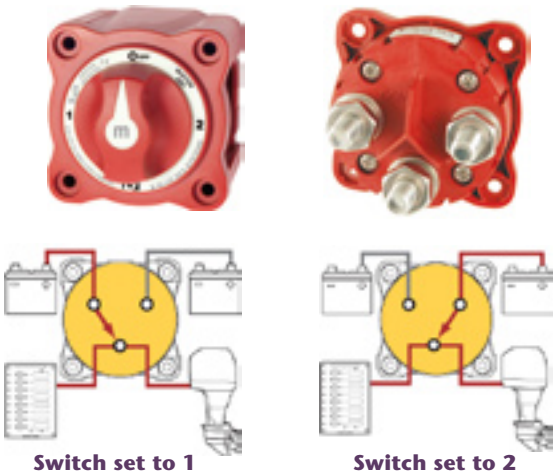
Specifications	
Switch Type	Single Circuit ON-OFF
Color	Red
Switch Positions	2
Battery Combine	No
Alternator Field Disconnect	No
Maximum Voltage	48V DC
Continuous Rating	300A
Intermittent Rating	500A (5 min)
Cranking Rating 10 sec	1500A
Cranking Rating 1 min	775A
Battery Inputs	1
Cable Clearance For 4/0 AWG Cables	1.12in (28.45 mm)
Cable Size to Meet Ratings	4/0 AWG (120mm²)
Mounting Holes	Accept #10 Screw
Terminal Stud Size	3/8"-16 (M10)
Terminal Stud Torque	120 in-lb (13.56 Nm)
Weight	0.62lb (0.28 kg)

Switches a single battery to a single load group

- Ignition protected—safe for installation aboard gasoline powered boats
- Case design allows surface, front panel, or rear panel mounting
- Isolating cover with snap-on sections protects rear contacts

BLUE SEA SYSTEMS

M-SERIES MINI SELECTOR BATTERY SWITCH - RED



Switch set to 1

Switch set to 2

Switch set to 1+2

Code: MM BLS 6007

Specifications	
Switch Type	Selector 4 Position
Color	Red
Switch Positions	4
Battery Combine	Yes
Alternator Field Disconnect	No
Maximum Voltage	32V DC
Continuous Rating	300A
Intermittent Rating	500A (5 min)
Cranking Rating 10 sec	1500A
Cranking Rating 1 min	775A
Battery Inputs	2
Cable Clearance For 4/0 AWG Cables	1.12in (28.45 mm)
Cable Size to Meet Ratings	4/0 AWG (120mm²)
Mounting Holes	Accept #10 Screw
Terminal Stud Size	3/8"-16 (M10)
Terminal Stud Torque	120 in-lb (13.56 Nm)
Weight	0.77lb (0.35 kg)

Switches isolated battery banks to all loads or combines battery banks to all loads

- Make before break contact design allows switching between battery banks without power interruptionIsolating cover with snap-on sections protects rear contacts

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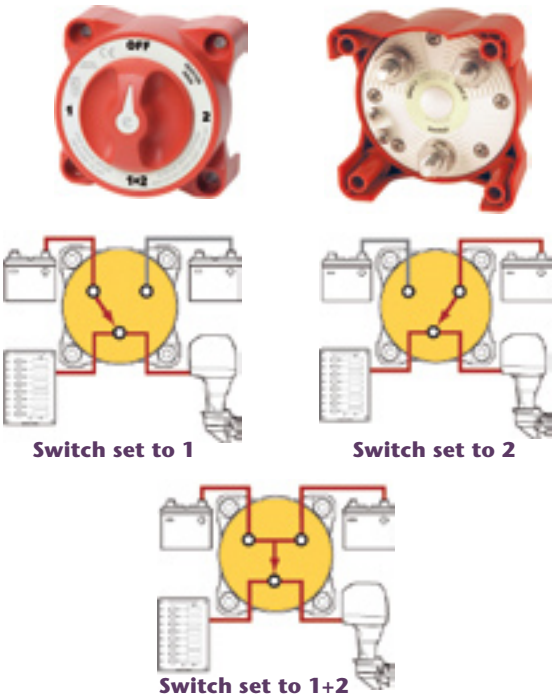
BLUE SEA SYSTEMS

E-SERIES SELECTOR BATTERY SWITCH WITH AFD



Code: MM BLS 9002E

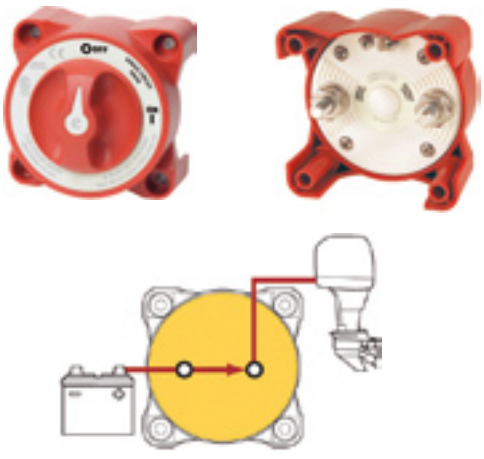
Specifications	
Switch Type	Selector 4 Position
Color	Red
Switch Positions	4
Battery Combine	Yes
Alternator Field Disconnect	Yes
Maximum Voltage	32V DC
Continuous Rating	350A
Intermittent Rating	600A (5 min)
Cranking Rating 10 sec	2000A
Cranking Rating 1 min	1000A
Battery Inputs	2
Cable Clearance For 4/0 AWG Cables	1.10in (27.94 mm)
Cable Size to Meet Ratings	4/0 AWG (120mm²)
Mounting Holes	Accept 1/4" (M6) Screw
Terminal Stud Size	3/8"-16 (M10)
Terminal Stud Torque	140 in-lb (15.82 Nm)
Weight	1.30lb (0.59 kg)

Switches isolated battery banks to all loads or combines battery banks to all loads

- Includes AFD (Alternator Field Disconnect)
- Make-before-break contact design allows switching between battery banks without power interruption
- Ignition protected—safe for installation aboard gasoline powered boats
- Case design allows surface or rear panel mounting

BLUE SEA SYSTEMS

E-SERIES ON-OFF BATTERY SWITCH



Code: MM BLS 9004E

Specifications	
Switch Type	Single Circuit ON-OFF
Color	Red
Switch Positions	2
Battery Combine	No
Alternator Field Disconnect	Yes
Maximum Voltage	48V DC
Continuous Rating	350A
Intermittent Rating	600A (5 min)
Cranking Rating 10 sec	2000A
Cranking Rating 1 min	1000A
Battery Inputs	1
Cable Clearance For 4/0 AWG Cables	1.10in (27.94 mm)
Cable Size to Meet Ratings	4/0 AWG (120mm²)
Mounting Holes	Accept 1/4" (M6) Screw
Terminal Stud Size	3/8"-16 (M10)
Terminal Stud Torque	140 in-lb (15.82 Nm)
Weight	1.30lb (0.59 kg)

Switches a single battery to a single load group

- Includes AFD (Alternator Field Disconnect)
- Ignition protected—safe for installation aboard gasoline powered boats
- Case design allows surface or rear panel mounting

BLUE SEA SYSTEMS

HD-SERIES HEAVY DUTY ON-OFF BATTERY SWITCH WITH AFD

Code: MM BLS 3001

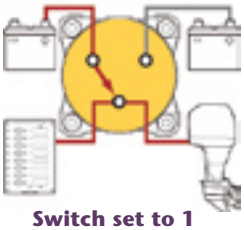
Switches a single battery to a single load group

- Includes AFD (Alternator Field Disconnect)
- Ignition protected—safe for installation aboard gasoline powered boats
- Case design allows surface or rear panel mounting
- Accepts two 4/0 AWG (95mm²) battery cables

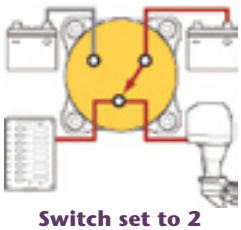
Specifications	
Switch Type	Single Circuit ON-OFF
Color	Grey
Switch Positions	2
Battery Combine	No
Alternator Field Disconnect	Yes
Maximum Voltage	32V DC
Continuous Rating	600A
Intermittent Rating	900A (5 min)
Cranking Rating 10 sec	2750A
Cranking Rating 1 min	1325A
Battery Inputs	1
Cable Clearance For 4/0 AWG Cables	1.10in (27.94 mm)
Cable Quantity to Meet Ratings	Two Cables
Cable Size to Meet Ratings	4/0 AWG (120mm²)
Mounting Holes	Accept 1/4" (M6) Screw
Terminal Stud Size	1/2" (M12)
Terminal Stud Torque	220 in-lb (24.86 Nm)
Weight	1.30lb (0.59 kg)

BLUE SEA SYSTEMS

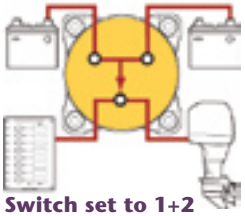
HD-SERIES HEAVY DUTY SELECTOR BATTERY SWITCH WITH AFD



Switch set to 1



Switch set to 2



Switch set to 1+2

Code: MM BLS 3003

Specifications	
Switch Type	Selector 4 Position
Color	Grey
Switch Positions	4
Battery Combine	Yes
Alternator Field Disconnect	Yes
Maximum Voltage	32V DC
Continuous Rating	500A
Intermittent Rating	700A (5 min)
Cranking Rating 10 sec	2750A
Cranking Rating 1 min	1150A
Battery Inputs	2
Cable Clearance For 4/0 AWG Cables	1.10in (27.94 mm)
Cable Quantity to Meet Ratings	Two Cables / Terminal
Cable Size to Meet Ratings	4/0 AWG (120mm²)
Mounting Holes	Accept 1/4" (M6) Screw
Terminal Stud Size	1/2" (M12)
Terminal Stud Torque	220 in-lb (24.86 Nm)
Weight	1.25lb (0.57 kg)

Switches isolated battery banks to all loads or combines battery banks to all loads

- Includes AFD (Alternator Field Disconnect)
- Make-before-break contact design allows switching between battery banks without power interruption
- Ignition protected—safe for installation aboard gasoline powered boats
- Case design allows surface or rear panel mounting
- Accepts two 4/0 AWG (95mm²) battery cables

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FUSES

GLASS FUSES 5X20

Code	Amperage	Voltage	Dimensions	Pack	Type
MM REB RE10058	0,25A	12 - 24V	5 x 20 mm	50 pcs	rapid
MM REB RE10059	0,50A	12 - 24V	5 x 20 mm	50 pcs	rapid
MM REB RE10045	1A	12 - 24V	5 x 20 mm	50 pcs	rapid
MM REB RE10046	2A	12 - 24V	5 x 20 mm	50 pcs	rapid
MM REB RE10006	3A	12 - 24V	5 x 20 mm	50 pcs	rapid
MM REB RE10001	4A	12 - 24V	5 x 20 mm	50 pcs	rapid
MM REB RE10007	5A	12 - 24V	5 x 20 mm	50 pcs	rapid
MM REB RE10008	8A	12 - 24V	5 x 20 mm	50 pcs	rapid
MM REB RE10009	10A	12 - 24V	5 x 20 mm	50 pcs	rapid
MM REB RE10010	12A	12 - 24V	5 x 20 mm	50 pcs	rapid
MM REB RE10011	15A	12 - 24V	5 x 20 mm	50 pcs	rapid
MM REB RE10012	20A	12 - 24V	5 x 20 mm	50 pcs	rapid

GLASS FUSES 6,3X32

Code	Amperage	Voltage	Dimensions	Pack	Type
MM REB RE10047	1A	12 - 24V	6,3 x 32 mm	50 pcs	rapid
MM REB RE10048	2A	12 - 24V	6,3 x 32 mm	50 pcs	rapid
MM REB RE10049	3A	12 - 24V	6,3 x 32 mm	50 pcs	rapid
MM REB RE10013	5A	12 - 24V	6,3 x 32 mm	50 pcs	rapid
MM REB RE10014	7,5A	12 - 24V	6,3 x 32 mm	50 pcs	rapid
MM REB RE10015	10A	12 - 24V	6,3 x 32 mm	50 pcs	rapid
MM REB RE10016	15A	12 - 24V	6,3 x 32 mm	50 pcs	rapid
MM REB RE10050	20A	12 - 24V	6,3 x 32 mm	50 pcs	rapid
MM REB RE10017	25A	12 - 24V	6,3 x 32 mm	50 pcs	rapid
MM REB RE10018	30A	12 - 24V	6,3 x 32 mm	50 pcs	rapid
MM REB RE10019	35A	12 - 24V	6,3 x 32 mm	50 pcs	rapid

GLASS FUSES 7X32

Code	Amperage	Voltage	Dimensions	Pack	Type
MM REB RE10120	5A	12 - 24V	7 x 32 mm	50 pcs	rapid
MM REB RE10121	8A	12 - 24V	7 x 32 mm	50 pcs	rapid
MM REB RE10122	10A	12 - 24V	7 x 32 mm	50 pcs	rapid
MM REB RE10123	12A	12 - 24V	7 x 32 mm	50 pcs	rapid
MM REB RE10124	15A	12 - 24V	7 x 32 mm	50 pcs	rapid
MM REB RE10125	20A	12 - 24V	7 x 32 mm	50 pcs	rapid

MINI-VAL FUSES

Code	Amperage	Voltage	Dimensions	Pack	Type	Colour
MM REB RE10060	2A	12 - 24V	11,2 x 4 mm	25 pcs	rapid	grey
MM REB RE10061	3A	12 - 24V	11,2 x 4 mm	25 pcs	rapid	violet
MM REB RE10062	4A	12 - 24V	11,2 x 4 mm	25 pcs	rapid	pink
MM REB RE10063	5A	12 - 24V	11,2 x 4 mm	25 pcs	rapid	beige
MM REB RE10064	7,5A	12 - 24V	11,2 x 4 mm	25 pcs	rapid	brown
MM REB RE10065	10A	12 - 24V	11,2 x 4 mm	25 pcs	rapid	red
MM REB RE10066	15A	12 - 24V	11,2 x 4 mm	25 pcs	rapid	blue
MM REB RE10067	20A	12 - 24V	11,2 x 4 mm	25 pcs	rapid	yellow
MM REB RE10068	25A	12 - 24V	11,2 x 4 mm	25 pcs	rapid	natural
MM REB RE10069	30A	12 - 24V	11,2 x 4 mm	25 pcs	rapid	green

MINI-VAL FUSES LOW PROFILE

Code	Amperage	Voltage	Dimensions	Pack	Type	Colour
MM REB RE10126	2A	12 - 24V	11,2 x 4 mm	25 pcs	rapid	grey
MM REB RE10127	3A	12 - 24V	11,2 x 4 mm	25 pcs	rapid	violet
MM REB RE10128	4A	12 - 24V	11,2 x 4 mm	25 pcs	rapid	pink
MM REB RE10129	5A	12 - 24V	11,2 x 4 mm	25 pcs	rapid	beige
MM REB RE10130	7,5A	12 - 24V	11,2 x 4 mm	25 pcs	rapid	brown
MM REB RE10131	10A	12 - 24V	11,2 x 4 mm	25 pcs	rapid	red
MM REB RE10132	15A	12 - 24V	11,2 x 4 mm	25 pcs	rapid	blue
MM REB RE10133	20A	12 - 24V	11,2 x 4 mm	25 pcs	rapid	yellow
MM REB RE10134	25A	12 - 24V	11,2 x 4 mm	25 pcs	rapid	natural
MM REB RE10135	30A	12 - 24V	11,2 x 4 mm	25 pcs	rapid	green

UNI-VAL FUSES

Code	Amperage	Voltage	Dimensions	Pack	Type	Colour
MM REB RE10070	1A	12 - 24V	19 x 5,5 mm	100 pcs	rapid	black
MM REB RE10071	2A	12 - 24V	19 x 5,5 mm	100 pcs	rapid	grey
MM REB RE10072	3A	12 - 24V	19 x 5,5 mm	100 pcs	rapid	violet
MM REB RE10073	4A	12 - 24V	19 x 5,5 mm	100 pcs	rapid	pink
MM REB RE10026	5A	12 - 24V	19 x 5,5 mm	100 pcs	rapid	beige
MM REB RE10074	7,5A	12 - 24V	19 x 5,5 mm	100 pcs	rapid	brown
MM REB RE10027	10A	12 - 24V	19 x 5,5 mm	100 pcs	rapid	red
MM REB RE10028	15A	12 - 24V	19 x 5,5 mm	100 pcs	rapid	blue
MM REB RE10075	20A	12 - 24V	19 x 5,5 mm	100 pcs	rapid	yellow
MM REB RE10029	25A	12 - 24V	19 x 5,5 mm	100 pcs	rapid	natural
MM REB RE10030	30A	12 - 24V	19 x 5,5 mm	100 pcs	rapid	green
MM REB RE10031	40A	12 - 24V	19 x 5,5 mm	100 pcs	rapid	orange

WARNING LIGHT FOR UNIVAL FUSES

To be installed between the fuseholder and the UNI-VAL fuse
A light inside switches on when a fuse blows
It can be mounted on every UNI-VAL fuse from 1A to 40A

Code	Type of use	Fuse compatible	Visual alarm	Dimensions	Pack
MM REB RE60364	1-40A	Every UNI-VAL fuses	yes	19 x 5,5 x 20 mm	10 pcs

BOX WITH FUSE KIT 80 PCS

Practical box with separating and transparent cover that can be opened

Code	Type of use	Number division	Range of fuses 4A-5A-7,5A-10A-15A-20A-25A-30A	Dimensions box
MM REB RE10021	UNI-VAL	8	80 pcs (10 for type)	164x117x36 mm
MM REB RE10101	MINI-VAL	8	80 pcs	164x117x36 mm

PLUGS & SOCKETS

SEAL CONNECTORS

Golden hypertac contacts – Linear distribution on the contact
High power rating – Coupling plug fixed socket

Code	Poles *n*	MAX amperage *A*	Socket diameter *mm*	Plug diameter *mm*
MM REB RE58978	3	12	43	36
MM REB RE58980	5	12	43	36
MM REB RE58981	6	12	43	36
MM REB RE58982	9	12	43	36
MM REB RE58933	7	12	43	36
MM REB RE58934	8	12	43	36
MM REB RE58935	10	12	43	36
MM REB RE58936	12	12	43	36

SEAL CONNECTORS 3A

Coupling plug fixed socket – ABS cover with screws –
In chromed brass – Bronze contacts

Code	Poles *n*	MAX amperage *A*	Socket diameter *mm*	Plug diameter *mm*
MM REB RE58932	2	3A	42	35
MM REB RE58931	3	3A	42	35
MM REB RE58930	4	3A	42	35

SEAL CONNECTORS 5A

Coupling plug fixed socket – ABS cover with screws –
In chromed brass – Bronze contacts

Code	Poles *n*	MAX amperage *A*	Socket diameter *mm*	Plug diameter *mm*
MM REB RE58952	2	5A	52	45
MM REB RE58951	3	5A	52	45
MM REB RE58950	4	5A	52	45

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MARECHAL electric

ELECTRICAL POWER CONNECTORS

Outlet Socket

Inlet Plug

Handle

Plugs and sockets with integral load-break switching capability complying with IEC EN 60309-1 and IEC EN 60309-4 standards

ELECTRICAL FEATURES					
	DS1	DS3	DS6	DS9	DS2
Rated current In (up to)	30 A	50 A	90 A	150 A	250 A
Umax	690 V	1000 V	1000 V	1000 V	1000 V
AC-22 switching capability	16 A / 690 V	32 A / 690 V	A / 690 V	150 A / 400 V	250 A / 400 V
AC-23 switching capability	30 A / 400 V	50 A / 400 V	A / 400 V	100 A / 440 V	160 A / 440 V
Auxiliary contacts (optional)	2	4	4	6	7
Keying positions (1)	24	24	24	24	12
Ambient temperature	-40 °C to +60 °C for all DS range				
Short-circuit current Icc	10 kA for all DS range				

(1) To discriminate between different power supplies and applications

DS1 up to 30A IP55

Socket-outlet (female)			Inlet (male)		
Code	Voltage 50 Hz	Polarity	Code	Voltage 50 Hz	Polarity
MM MCH 31 14 08A	20 -24 V	2P	31 18 08A	20 -24 V	2P
MM MCH 31 14 033	190 -230 V	3P+E	31 18 033	190 -230 V	3P+E
MM MCH 31 14 015	220 -250 V	1P+N+E	31 18 015	220 -250 V	1P+N+E
MM MCH 31 14 013	380 -440 V	3P+E	31 18 013	380 -440 V	3P+E
MM MCH 31 14 017	380 -440 V	3P+N+E	31 18 017	380 -440 V	3P+N+E
MM MCH 31 14 193	660 -690 V	3P+E	31 18 193	660 -690 V	3P+E
MM MCH 31 14 197	660 -690 V	3P+N+E	31 18 197	660 -690 V	3P+N+E

Handles	
Code	Size
MM MCH 31 1A 753	5-12mm
MM MCH 31 1A 253 25P	9-18mm
MM MCH 31 1A 253 32P	14-25mm
MM MCH 31 1A 253 40P	18-32mm

DS3 up to 50A IP55

Socket-outlet (female)			Inlet (male)		
Code	Voltage 50 Hz	Polarity	Code	Voltage 50 Hz	Polarity
MM MCH 31 34 08A	20 -24 V	2P	MM MCH 31 38 08A	20 -24 V	2P
MM MCH 31 34 033	190 -230 V	3P+E	MM MCH 31 38 033	190 -230 V	3P+E
MM MCH 31 34 015	220 -250 V	1P+N+E	MM MCH 31 38 015	220 -250 V	1P+N+E
MM MCH 31 34 013	380 -440 V	3P+E	MM MCH 31 38 013	380 -440 V	3P+E
MM MCH 31 34 017	380 -440 V	3P+N+E	MM MCH 31 38 017	380 -440 V	3P+N+E
MM MCH 31 34 193	660 -690 V	3P+E	MM MCH 31 38 193	660 -690 V	3P+E
MM MCH 31 34 197	660 -690 V	3P+N+E	MM MCH 31 38 197	660 -690 V	3P+N+E
MM MCH 31 34 223	1000 V	3P+E	MM MCH 31 38 223	1000 V	3P+E

Handles	
Code	Size
MM MCH 31 3A 253 20P	5-12mm
MM MCH 31 3A 753	9-18mm
MM MCH 31 3A 253 32P	14-25mm
MM MCH 31 3A 253 40P	18-32mm

DS6 up to 90A IP55

Socket-outlet (female) PBT*			Inlet (male) PBT*		
Code	Voltage 50 Hz	Polarity	Code	Voltage 50 Hz	Polarity
MM MCH 31 64 033	190 -230 V	3P+E	MM MCH 31 68 033	190 -230 V	3P+E
MM MCH 31 64 015	220 -250 V	1P+N+E	MM MCH 31 68 015	220 -250 V	1P+N+E
MM MCH 31 64 013	380 -440 V	3P+E	MM MCH 31 68 013	380 -440 V	3P+E
MM MCH 31 64 017	380 -440 V	3P+N+E	MM MCH 31 68 017	380 -440 V	3P+N+E
MM MCH 31 64 193	660 -690 V	3P+E	MM MCH 31 68 193	660 -690 V	3P+E
MM MCH 31 64 197	660 -690 V	3P+N+E	MM MCH 31 68 197	660 -690 V	3P+N+E
MM MCH 31 64 223	1000 V	3P+E	MM MCH 31 68 223	1000 V	3P+E

Handles	
Code	Size
MM MCH 31 6A 253 25P	9-18mm
MM MCH 31 6A 253 32P	14-25mm
MM MCH 31 6A 753	18-32mm
MM MCH 31 6A 253 50P	24-38mm

* For a metal casing, replace 31 on part no. by 39

DS9 up to 150A IP66/67

Socket-outlet (female)			Inlet (male)		
Code	Voltage 50 Hz	Polarity	Code	Voltage 50 Hz	Polarity
MM MCH 31 94 033	190 -230 V	3P+E	MM MCH 31 98 033	190 -230 V	3P+E
MM MCH 31 94 015	220 -250 V	1P+N+E	MM MCH 31 98 015	220 -250 V	1P+N+E
MM MCH 31 94 013	380 -440 V	3P+E	MM MCH 31 98 013	380 -440 V	3P+E
MM MCH 31 94 017	380 -440 V	3P+N+E	MM MCH 31 98 017	380 -440 V	3P+N+E
MM MCH 31 94 193	660 -690 V	3P+E	MM MCH 31 98 193	660 -690 V	3P+E
MM MCH 31 94 197	660 -690 V	3P+N+E	MM MCH 31 98 197	660 -690 V	3P+N+E
MM MCH 31 94 223	1000 V	3P+E	MM MCH 31 98 223	1000 V	3P+E

Handles	
Code	Size
MM MCH 61 9A 253 63P	35-48mm

DS9 up to 150A IP55

Socket-outlet (female)			Inlet (male)		
Code	Voltage 50 Hz	Polarity	Code	Voltage 50 Hz	Polarity
MM MCH 39 94 033	190 -230 V	3P+E	MM MCH 39 98 033	190 -230 V	3P+E
MM MCH 39 94 015	220 -250 V	1P+N+E	MM MCH 39 98 015	220 -250 V	1P+N+E
MM MCH 39 94 013	380 -440 V	3P+E	MM MCH 39 98 013	380 -440 V	3P+E
MM MCH 39 94 017	380 -440 V	3P+N+E	MM MCH 39 98 017	380 -440 V	3P+N+E
MM MCH 39 94 193	660 -690 V	3P+E	MM MCH 39 98 193	660 -690 V	3P+E
MM MCH 39 94 197	660 -690 V	3P+N+E	MM MCH 39 98 197	660 -690 V	3P+N+E
MM MCH 39 94 223	1000 V	3P+E	MM MCH 39 98 223	1000 V	3P+E

Handles	
Code	Size
MM MCH 61 9A 253 63M	35-48mm

DS2 up to 250A IP55

Socket-outlet (female)			Inlet (male)		
Code	Voltage 50 Hz	Polarity	Code	Voltage 50 Hz	Polarity
MM MCH 39 24 033	190 -230 V	3P+E	MM MCH 39 28 033	190 -230 V	3P+E
MM MCH 39 24 013	380 -440 V	3P+E	MM MCH 39 28 013	380 -440 V	3P+E
MM MCH 39 24 017	380 -440 V	3P+N+E	MM MCH 39 28 017	380 -440 V	3P+N+E
MM MCH 39 24 193	660 -690 V	3P+E	MM MCH 39 28 193	660 -690 V	3P+E
MM MCH 39 24 197	660 -690 V	3P+N+E	MM MCH 39 28 197	660 -690 V	3P+N+E
MM MCH 39 24 223	1000 V	3P+E	MM MCH 39 28 223	1000 V	3P+E

Handles	
Code	Size
MM MCH 39 2A 753	35-48mm

NAVIGATION LIGHTS

HELLA
Hella marine

2 NM NaviLED
TRIO
Tri Colour
Navigation Lamp
Voltage: 12V, 24V
MM HEL 2LT980650-001

2 NM Tri-Colour
Navigation Lamp
Voltage: 12V
MM HEL 2844

2 NM Tri-Colour
/ Anchor
Navigation
Lamp
Voltage: 12V
MM HEL 2845

2 NM NaviLED
PRO Port
Navigation Lamp
Black Shroud - Red Lens
Voltage: 12V, 24V
MM HEL 2LT959900-001

2 NM NaviLED
PRO Port
Navigation Lamp
White Shroud - Red Lens
Voltage: 12V, 24V
MM HEL 2LT959900-011

2 NM BSH
NaviLED
PRO Port Navigation Lamp
Black Shroud - Red Lens
Voltage: 12V, 24V
MM HEL 2LT959900-501

2 NM BSH
NaviLED
PRO Port Navigation Lamp
White Shroud - Red Lens
Voltage: 12V, 24V
MM HEL 2LT959900-511

3 NM NaviLED
PRO Port
Navigation Lamp
Black Shroud
Voltage: 12V, 24V
MM HEL 2LT959900-201

3 NM NaviLED
PRO Port
Navigation Lamp
White Shroud
Voltage: 12V, 24V
MM HEL 2LT959900-211

2 NM
NaviLED
Port Navigation Lamp
Black Shroud - Red Lens
(120mm Cable)
Voltage: 12V, 24V
MM HEL 2LT980520-001

2 NM
NaviLED
Port Navigation Lamp
White Shroud - Red Lens
(120mm Cable)
Voltage: 12V, 24V
MM HEL 2LT980520-011

2 NM BSH
NaviLED
Port Navigation Lamp
Black Shroud - Red Lens
(120mm Cable)
Voltage: 12V, 24V
MM HEL 2LT980520-061

2 NM BSH
NaviLED
Port Navigation Lamp
White Shroud - Red Lens
(120mm Cable)
Voltage: 12V, 24V
MM HEL 2LT980520-071

2 NM Port Navigation Lamp
12V DC, Black Housing
Voltage: 12V
MM HEL 2854

2 NM Port Navigation Lamp
12V DC, White Housing
Voltage: 12V
MM HEL 2854W

2 NM NaviLED
PRO Starboard
Navigation Lamp
Black Shroud - Green Lens
Voltage: 12V, 24V
MM HEL 2LT959908-001

2 NM NaviLED
PRO Starboard
Navigation Lamp
White Shroud - Green Lens
Voltage: 12V, 24V
MM HEL 2LT959908-011

2 NM BSH
NaviLED
PRO Starboard
Navigation Lamp
Black Shroud - Green Lens
Voltage: 12V, 24V
MM HEL 2LT959908-501

2 NM BSH
NaviLED
PRO Starboard
Navigation Lamp
White Shroud - Green Lens
Voltage: 12V, 24V
MM HEL 2LT959908-511

3 NM
NaviLED
PRO Starboard
Navigation Lamp
Black Shroud - Green Lens
Voltage: 12V, 24V

MM HEL 2LT959908-201

3 NM
NaviLED
PRO Starboard
Navigation Lamp
White Shroud - Green Lens
Voltage: 12V, 24V

MM HEL 2LT959908-211

22 NM
NaviLED
Starboard Navigation Lamp
Black Shroud, Coloured Lens
(120mm Cable)
Voltage: 12V, 24V

MM HEL 2LT980520-201

22 NM
NaviLED
Starboard Navigation Lamp
White Shroud, Coloured Lens
(120mm Cable)
Voltage: 12V, 24V

MM HEL 2LT980520-211

2 NM BSH
NaviLED
Starboard Navigation Lamp
Black Shroud, Coloured Lens
(120mm Cable)
Voltage: 12V, 24V

MM HEL 2LT980520-261

2 NM BSH
NaviLED
Starboard Navigation Lamp
White Shroud, Coloured Lens
(120mm Cable)
Voltage: 12V, 24V

MM HEL 2LT980520-271

2 NM
Starboard
Navigation Lamp
12V DC, Black Housing
Voltage: 12V

MM HEL 2853

2 NM
Starboard
Navigation Lamp
12V DC, White Housing
Voltage: 12V

MM HEL 2853W

2NM
NaviLED
Port and
Starboard Pair
Black Shroud - Coloured Lens
Voltage: 12V, 24V

MM HEL 2LT980520-801

2NM
NaviLED
Port and
Starboard Pair
White Shroud - Coloured Lens
Voltage: 12V, 24V

MM HEL 2LT980520-811

2 NM BSH
NaviLED
Port and
Starboard
Navigation Lamps
Black Shroud - Coloured Lens
Voltage: 12V, 24V

MM HEL 2LT980520-861

2 NM BSH
NaviLED
Port and
Starboard
Navigation Lamps
White Shroud - Coloured Lens
Voltage: 12V, 24V

MM HEL 2LT980520-871

2NM
NaviLED
Deck Mount
Port and Starboard Pair
Black Shroud - Coloured Lens
Voltage: 12V, 24V

MM HEL 2LT980620-801

2NM
NaviLED
Deck Mount
Port and Starboard Pair
White Shroud - Coloured Lens
Voltage: 12V, 24V

MM HEL 2LT980620-811

2 NM BSH
NaviLED
PRO Bi-Colour
Navigation Lamp
Black Shroud
Voltage: 12V, 24V

MM HEL 2LT959941-001

2 NM BSH
NaviLED
PRO Bi-Colour
Navigation Lamp
White Shroud
Voltage: 12V, 24V

MM HEL 2LT959941-011

2 NM
NaviLED
PRO Stern
Navigation Lamp
Black Shroud
Voltage: 12V, 24V

MM HEL 2LT959909-001

2 NM
NaviLED
PRO Stern
Navigation Lamp
White Shroud
Voltage: 12V, 24V

MM HEL 2LT959909-011

2 NM BSH
NaviLED
PRO Stern
Navigation Lamp
Black Shroud
Voltage: 12V, 24V

MM HEL 2LT959909-501

2 NM BSH
NaviLED
PRO Stern
Navigation Lamp
White Shroud
Voltage: 12V, 24V

MM HEL 2LT959909-511

3 NM
NaviLED
PRO Stern
Navigation Lamp
Black Shroud
Voltage: 12V, 24V

MM HEL 2LT959909-201

3 NM
NaviLED
PRO Stern
Navigation Lamp
White Shroud
Voltage: 12V, 24V

MM HEL 2LT959909-211

2 NM
NaviLED
Stern Navigation Lamp
Black Shroud - Clear Lens
(120mm Cable)
Voltage: 12V, 24V

MM HEL 2LT980520-501

2 NM
NaviLED
Stern Navigation Lamp
White Shroud - Clear Lens
(120mm Cable)
Voltage: 12V, 24V

MM HEL 2LT980520-511

2 NM BSH
NaviLED
Stern Navigation Lamp
Black Shroud - Clear Lens
(120mm Cable)
Voltage: 12V, 24V

MM HEL 2LT980520-501

2 NM BSH
NaviLED
Stern Navigation Lamp
White Shroud - Clear Lens
(120mm Cable)
Voltage: 12V, 24V

MM HEL 2LT980520-511

2 NM
Stern Navigation Lamps
12V DC, Black Housing
Voltage: 12V

MM HEL 2851

2 NM
Stern Navigation Lamps
12V DC, White Housing
Voltage: 12V

MM HEL 2851W

2 NM
NaviLED 360
All Round
White Navigation Lamps
Surface Mount - Black Base
Voltage: 12V, 24V

MM HEL 2LT980910-001

2 NM
NaviLED 360
All Round
White Navigation Lamps
Surface Mount - White Base
Voltage: 12V, 24V

MM HEL 2LT980910-011

2 NM BSH
NaviLED
360 All Round
White Navigation Lamps
Surface Mount - Black Base
Voltage: 12V, 24V

MM HEL 2LT980910-101

2 NM
NaviLED 360
All Round
White Navigation Lamps
Surface Mount - White Base
Voltage: 12V, 24V

MM HEL 2LT980910-111

2 NM
NaviLED
360 All Round
White Fold
Down Pole
Navigation Lamp
12inch/305mm - Black Base
Voltage: 12V, 24V

MM HEL 2LT980910-001

2 NM
NaviLED
360 All Round
White Fold
Down Pole
Navigation Lamp
12inch/305mm - White Base
Voltage: 12V, 24V

MM HEL 2LT959910-721

2 NM
NaviLED
360 All Round
White Fold
Down Pole
Navigation Lamp
20inch/500mm - Black Base
Voltage: 12V, 24V

MM HEL 2LT959910-661

2 NM
NaviLED
360 All Round
White Fold
Down Pole
Navigation Lamp
20inch/500mm - White Base
Voltage: 12V, 24V

MM HEL 2LT959910-761

2 NM
NaviLED
360 All Round
White Fold
Down Pole
Navigation Lamp
24inch/610mm - Black Base
Voltage: 12V, 24V

MM HEL 2LT959910-631

2 NM
NaviLED
360 All Round
White Fold
Down Pole
Navigation Lamp
24inch/610mm - White Base
Voltage: 12V, 24V

MM HEL 2LT959910-731

2 NM
NaviLED
360 All Round
White Fold
Down Pole
Navigation Lamp
34inch/850mm - Black Base
Voltage: 12V, 24V

MM HEL 2LT959910-651

2 NM
NaviLED
360 All Round
White Fold
Down Pole
Navigation Lamp
34inch/850mm - White Base
Voltage: 12V, 24V

MM HEL 2LT959910-751

2 NM
NaviLED
360 All Round
White Plug-in Pole
Navigation Lamp
24inch/610mm - Black Base
Voltage: 12V, 24V

MM HEL 2LT959910-431

2 NM
NaviLED
360 All Round
White Plug-in Pole
Navigation Lamp
24inch/610mm - White Base
Voltage: 12V, 24V

MM HEL 2LT959910-531

2 NM
NaviLED
360 All Round
White Plug-in Pole
Navigation Lamp
42inch/1070mm - Black Base
Voltage: 12V, 24V

MM HEL 2LT959910-451

2 NM
NaviLED
360 All Round
White Plug-in Pole
Navigation Lamp
42inch/1070mm - White Base
Voltage: 12V, 24V

MM HEL 2LT959910-551

2 NM
All Round
White / Anchor
Navigation Lamp
12V DC, Black
or White Housing
Voltage: 12V

MM HEL 2846
MM HEL 2846W

2 NM
All Round
White with
optional Strobe
function
12V Anchor Lamp Only
Black or White
Voltage: 12V

MM HEL 2LT002984-801
MM HEL 2LT002984-811

2 NM
All Round
White with
optional Strobe
function
12V Anchor / Strobe
Black or White
Voltage: 12V

MM HEL 2LT002984-821
MM HEL 2LT002984-831

2 NM All Round
White/Anchor
Surface
Mount Lamps
12V DC, Black
or White Housing
Voltage: 12V

MM HEL 2875
MM HEL 2875W

2 NM
Masthead / Anchor
Navigation Lamp
Fold Down Base
12V, 8inch/204mm
Black or White Housing
Voltage: 12V

MM HEL 2LT995003-021
MM HEL 2LT995003-061

2 NM
Masthead / Anchor
Navigation Lamp
Fold Down Base
12V, 20inch/508mm
Black or White Housing
Voltage: 12V

MM HEL 2LT995003-031
MM HEL 2LT995003-071

2 NM
NaviLED
360 All Round
Red Navigation Lamps
Surface Mount - Black Base
Voltage: 12V, 24V

MM HEL 2LT980910-401

2 NM
NaviLED
360 All Round
Red Navigation Lamps
Surface Mount - White Base
Voltage: 12V, 24V

MM HEL 2LT980910-411

2 NM BSH
NaviLED
360 All Round
Red Navigation Lamps
Surface Mount - Black Base
Voltage: 12V, 24V

MM HEL 2LT980910-501

2 NM BSH
NaviLED
360 All Round
Red Navigation Lamps
Surface Mount - White Base
Voltage: 12V, 24V

MM HEL 2LT980910-511

2 NM
All Round
Red Navigation Lamp
12V DC, Black Housing
Voltage: 12V

MM HEL 2848

2 NM
All Round
Green Navigation Lamp
12V DC, Black Housing
Voltage: 12V

MM HEL 2847

2 NM
NaviLED
360 All Round
Green Navigation Lamps
Surface Mount - Black Base
Voltage: 12V, 24V

MM HEL 2LT980910-201

2 NM
NaviLED
360 All Round
Green Navigation Lamps
Surface Mount - White Base
Voltage: 12V, 24V

MM HEL 2LT980910-211

2 NM BSH
NaviLED
360 All Round
Green Navigation Lamps
Surface Mount - Black Base
Voltage: 12V, 24V

MM HEL 2LT980910-301

2 NM BSH
NaviLED
360 All Round
Green Navigation Lamps
Surface Mount - White Base
Voltage: 12V, 24V

MM HEL 2LT980910-311

5 NM BSH
NaviLED
PRO Masthead
Navigation Lamp
Black Shroud
Ultra Heavy Duty Lens
Voltage: 12V, 24V

MM HEL 2LT959940-401

5 NM BSH
NaviLED
PRO Masthead
Navigation Lamp
White Shroud
Ultra Heavy Duty Lens
Voltage: 12V, 24V

MM HEL 2LT959940-411

3 NM
NaviLED
PRO Masthead
Navigation Lamp
Black Shroud
Voltage: 12V, 24V

MM HEL 2LT959940-201

3 NM
NaviLED
PRO Masthead
Navigation Lamp
White Shroud
Voltage: 12V, 24V

MM HEL 2LT959940-211

3 NM BSH
NaviLED
PRO Masthead
Navigation Lamp
Black Shroud
Voltage: 12V, 24V

MM HEL 2LT959940-501

3 NM BSH
NaviLED
PRO Masthead
Navigation Lamp
White Shroud
Voltage: 12V, 24V

MM HEL 2LT959940-511

3 NM BSH
NaviLED
PRO Masthead
Navigation Lamp
Black Shroud
Ultra Heavy Duty Lens
Voltage: 12V, 24V

MM HEL 2LT959940-601

3 NM BSH
NaviLED
PRO Masthead
Navigation Lamp
White Shroud
Ultra Heavy Duty Lens
Voltage: 12V, 24V

MM HEL 2LT959940-611

3 NM
Masthead
Navigation Lamps
12V DC, Black Housing
Voltage: 12V

MM HEL 2850

3 NM
Masthead
Navigation Lamps
12V DC, White Housing
Voltage: 12V

MM HEL 2850W

2 NM
NaviLED
Towing Navigation Lamp
Black Shroud - Amber Lens
(120mm Cable)
Voltage: 12V, 24V

MM HEL 2LT980520-601

2 NM
NaviLED
Towing Navigation Lamp
White Shroud - Amber Lens
(120mm Cable)
Voltage: 12V, 24V

MM HEL 2LT980520-611

BULBS

BAY15D DOUBLE POLE BULB, VERTICAL FILAMENT

Code	Socket	Voltage	Power	Length	Diameter
MM REB RE00092	BAY15D	12V	25W	62 mm	36 mm
MM REB RE00093	BAY15D	24V	25W	62 mm	36 mm
MM REB RE00094	BAY15D	12V	10 W	62 mm	36 mm
MM REB RE00095	BAY15D	24V	10 W	62 mm	36 mm

BAY15D DOUBLE POLE BULB, VERTICAL FILAMENT

Code	Socket	Voltage	Power	Length	Diameter
MM REB RE00042	BAY15D	12V	25W	70 mm	26 mm
MM REB RE00043	BAY15D	24V	25W	70 mm	26 mm
MM REB RE00044	BAY15D	12V	10 W	70 mm	26 mm
MM REB RE00045	BAY15D	24V	10 W	70 mm	26 mm

P28S LONG LIFE BULB

Code	Socket	Voltage	Power	Length	Diameter
MM REB RE00123	P28S	24V	40W	108 mm	38 mm
MM REB RE00124	P28S	220V	65W	108 mm	38 mm

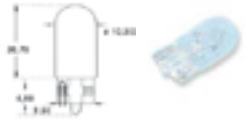
BA15D DOUBLE POLE BULB

Code	Socket	Voltage	Power	Length	Diameter
MM REB RE00005	BA15D	12V	15W	46,5 mm	26,50 mm
MM REB RE00006	BA15D	24V	15W	46,5 mm	26,50 mm
MM REB RE00046	BA15D	12V	20 W	46,5 mm	26,50 mm
MM REB RE00047	BA15D	24V	20 W	46,5 mm	26,50 mm

WEDGE GLASS BASE W2 X 4,6D

Code	Socket	Voltage	Power	Length	Diameter
MM REB RE00052	W2X4,6D	12V	1,2W	18 mm	5 mm
MM REB RE00053	W2X4,6D	24V	1,2W	31 mm	5 mm

WEDGE GLASS BASE W2,1D



Code	Socket	Voltage	Power	Length	Diameter
MM REB RE00001	W2,1X9,5D	12V	3W	25,30 mm	10,3 mm
MM REB RE00002	W2,1X9,5D	24V	3W	25,30 mm	10,3 mm

E14 SPHERICAL BULB

Code	Socket	Voltage	Power	Length	Diameter
MM REB RE00007	E14	12V	25W	70 mm	45 mm
MM REB RE00009	E14	12V	40W	70 mm	45 mm
MM REB RE00129	E14	12V	15W	70 mm	45 mm
MM REB RE00008	E14	24V	25W	70 mm	45 mm
MM REB RE00010	E14	24V	40W	70 mm	45 mm

E27 SPHERICAL BULB

Code	Socket	Voltage	Power	Length	Diameter
MM REB RE00151	E27	12V	15W	70 mm	45 mm
MM REB RE00056	E27	12V	25W	70 mm	45 mm
MM REB RE00057	E27	12V	40W	70 mm	45 mm
MM REB RE00130	E27	24V	15W	70 mm	45 mm
MM REB RE00058	E27	24V	25W	70 mm	45 mm
MM REB RE00059	E27	24V	40W	70 mm	45 mm
MM REB RE00152	E27	24V	60W	70 mm	45 mm

B22 STANDARD BULB

Code	Socket	Voltage	Power	Length	Diameter
MM REB RE00131	B22	12V	15W	70 mm	45 mm
MM REB RE00132	B22	14V	25W	70 mm	45 mm
MM REB RE00133	B22	12V	40W	70 mm	45 mm
MM REB RE00134	B22	24V	25W	70 mm	45 mm
MM REB RE00135	B22	24V	40W	70 mm	45 mm
MM REB RE00136	B22	24V	60W	70 mm	45 mm

E27 STANDARD BULB

Code	Socket	Voltage	Power	Length	Diameter
MM REB RE00086	E27	12V	40W	103 mm	60 mm
MM REB RE00087	E27	24V	40W	103 mm	60 mm
MM REB RE00021	E27	24V	60W	103 mm	60 mm
MM REB RE00022	E27	24V	100W	103 mm	60 mm

B22 SPHERICAL BULB

Code	Socket	Voltage	Power	Length	Diameter
MM REB RE00063	B22	12V	40W	103 mm	60 mm
MM REB RE00064	B22	24V	40W	103 mm	60 mm
MM REB RE00150	B22	24V	60W	103 mm	60 mm

FLUORESCENT TUBE

Code	Socket	Colour	Power	Length	Diameter
MM REB RE00137	8000h	cold	4W	136 mm	6 mm
MM REB RE00138	8000h	cold	6W	226 mm	6 mm
MM REB RE00065	8000h	cold	8W	288 mm	6 mm
MM REB RE00066	8000h	warm	13W	517 mm	6 mm

FLUORESCENT TUBE

Code	Socket	Colour	Power	Length	Diameter
MM REB RE00069	8000h	cold	7W	120 mm	34 mm
MM REB RE00067	8000h	cold	9W	152 mm	34 mm
MM REB RE00068	8000h	cold	11W	210 mm	34 mm

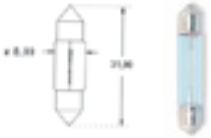
FLUORESCENT TUBE WITH SEPARATED SUPPLY

Code	Socket	Colour	Power	Length	Diameter
MM REB RE00139	10000h	cold	7W	137 mm	27 mm
MM REB RE00140	10000h	cold	11W	237 mm	27 mm

FESTOON BULB FOR AQUA SIGNAL LIGHT

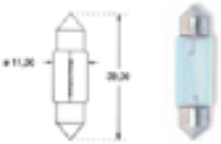
Code	Socket	Voltage	Power	Length	Diameter
MM REB RE00096	Aqua Signal	12V	10 W	43 mm	10 mm
MM REB RE00097	Aqua Signal	24V	10 W	43 mm	10 mm

SV 7,8 FESTOON BULB



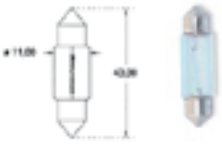
Code	Socket	Voltage	Power	Length	Diameter
MM REB RE00054	SV 7,8	12V	3W	31 mm	8 mm
MM REB RE00055	SV 7,8	24V	3W	31 mm	8 mm

SV8,5-8 FESTOON BULB



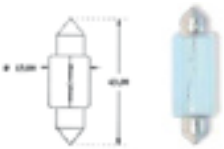
Code	Socket	Voltage	Power	Length	Diameter
MM REB RE00023	SV 8,5 - 8	12V	5W	38 mm	10 mm
MM REB RE00017	SV 8,5 - 8	12V	10W	38 mm	10 mm
MM REB RE00024	SV 8,5 - 8	24V	5W	38 mm	10 mm
MM REB RE00018	SV 8,5 - 8	24V	10W	38 mm	10 mm

SV8,5-8 FESTOON BULB



Code	Socket	Voltage	Power	Length	Diameter
MM REB RE00027	SV 8,5 - 8	12V	10W	43 mm	11 mm
MM REB RE00028	SV 8,5 - 8	24V	10W	43 mm	11 mm

SV8,5-8 FESTOON BULB



Code	Socket	Voltage	Power	Length	Diameter
MM REB RE00023	SV 8,5 - 8	12V	15W	43 mm	15 mm
MM REB RE00017	SV 8,5 - 8	12V	18W	43 mm	15 mm
MM REB RE00024	SV 8,5 - 8	24V	10W	43 mm	15 mm
MM REB RE00018	SV 8,5 - 8	24V	18W	43 mm	15 mm

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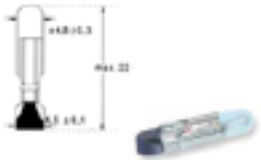
T 5,5K INCANDESCENT BULB

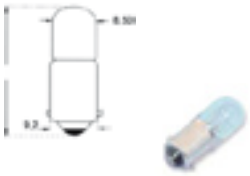


Code	Socket	Voltage	Power	Length	Diameter
MM REB RE00031	T 5,5 K	12V	1,2W	22 mm	4,8 mm
MM REB RE00032	T 5,5 K	24V	1,2W	22 mm	4,8 mm
MM REB RE00033	T 5,5 K	30V	1,2W	22 mm	4,8 mm

BA7S BULB

Code	Socket	Voltage	Power	Length	Diameter
MM REB RE00038	BA7S	12V	2W	20,7 mm	6,8 mm
MM REB RE00039	BA7S	24V	2W	20,7 mm	6,8 mm

BA9S MICROSVAN BULB



Code	Socket	Voltage	Power	Length	Diameter
MM REB RE00141	BA9S	12V	2W	23 mm	8,5 mm
MM REB RE00011	BA9S	12V	2W	23 mm	8,5 mm
MM REB RE00142	BA9S	24V	4W	23 mm	8,5 mm
MM REB RE00012	BA9S	24V	4W	23 mm	8,5 mm

BA15D DOUBLE POLE SVAN BULB

Code	Socket	Voltage	Power	Length	Diameter
MM REB RE00003	BA15D	12V	5W	37,5 mm	19 mm
MM REB RE00004	BA15D	24V	5W	37,5 mm	19 mm

BA15S ONE POLE BULB

Code	Socket	Voltage	Power	Length	Diameter
MM REB RE00034	BA15S	12V	5W	37,5 mm	19 mm
MM REB RE00035	BA15S	24V	5W	37,5 mm	19 mm
MM REB RE00040	BA15S	12V	10 W	37,5 mm	19 mm
MM REB RE00041	BA15S	24V	10 W	37,5 mm	19 mm

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OSRAM

HALOLUX T ECO

Code	Product	Nominal luminous flux	Rated luminous flux	Base (standard designation)	Rated wattage	Nominal wattage
MM OSR 64860	HALOLUX T ECO 25 W 230 V E14	260 lm	260 lm	E14	25 W	25 W
MM OSR 64861	HALOLUX T ECO 40 W 230 V E14	490 lm	490 lm	E14	40 W	40 W
MM OSR 64862	HALOLUX T ECO 60 W 230 V E14	820 lm	820 lm	E14	60 W	60 W

OSRAM

HALOPIN ECO SUPERSTAR

Code	Product	Nominal luminous flux	Rated luminous flux	Base (standard designation)	Rated wattage	Nominal wattage
MM OSR 66748	HALOPIN ECO SST 48 W 230 V G9	740 lm	740 lm	G9	48 W	48 W
MM OSR 66733	HALOPIN ECO SST 33 W 230 V G9	460 lm	460 lm	G9	33 W	33 W
MM OSR 66733	HALOPIN ECO SST 33 W 240 V G9	460 lm	460 lm	G9	33 W	33 W
MM OSR 66720	HALOPIN ECO SST 20 W 230 V G9	235 lm	235 lm	G9	20 W	20 W
MM OSR 66720	HALOPIN ECO SST 20 W 240 V G9	235 lm	235 lm	G9	20 W	20 W

OSRAM

HALOPIN ECO

Code	Product	Nominal luminous flux	Rated luminous flux	Base (standard designation)	Rated wattage	Nominal wattage
MM OSR 66720	HALOPIN ECO 20 W 230 V G9	235 lm	235 lm	G9	20 W	20 W
MM OSR 66720	HALOPIN ECO 20 W 240 V G9	235 lm	235 lm	G9	20 W	20 W
MM OSR 66733	HALOPIN ECO 33 W 230 V G9		460 lm	G9	33 W	33 W
MM OSR 66733	HALOPIN ECO 33 W 240 V G9	460 lm	460 lm	G9	33 W	33 W
MM OSR 66748	HALOPIN ECO 48 W 230 V G9	740 lm	740 lm	G9	48 W	48 W
MM OSR 66748	HALOPIN ECO 48 W 230 V G9	740 lm	740 lm	G9	48 W	48 W
MM OSR 66760	HALOPIN ECO 60 W 230 V G9	980 lm	980 lm	G9	60 W	60 W
MM OSR 66760	HALOPIN ECO 60 W 240 V G9	980 lm	980 lm	G9	60 W	60 W

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OSRAM

HALOLINE ECO SUPERSTAR

Code	Product	Nominal luminous flux	Rated luminous flux	Base (standard designation)	Rated wattage	Nominal wattage
MM OSR 64684	HALOLINE ECO SST 48 W 230 V R7S	750 lm	750 lm	R7s	48 W	48 W
MM OSR 64684	HALOLINE ECO SST 48 W 240 V R7S	750 lm	750 lm	R7s	48 W	48 W
MM OSR 64690	HALOLINE ECO SST 80 W 230 V R7S	1400 lm	1400 lm	R7s	80 W	80 W
MM OSR 64690	HALOLINE ECO SST 80 W 240 V R7S	1400 lm	1400 lm	R7s	80 W	80 W
MM OSR 64695	HALOLINE ECO SST 120 W 230 V R7S	2250 lm	2250 lm	R7s	120 W	120 W
MM OSR 64696	HALOLINE ECO SST 120 W 230 V R7S	2250 lm	2250 lm	R7s	120 W	120 W
MM OSR 64695	HALOLINE ECO SST 120 W 240 V R7S	2250 lm	2250 lm	R7s	120 W	120 W
MM OSR 64696	HALOLINE ECO SST 120 W 240 V R7S	2250 lm	2250 lm	R7s	120 W	120 W
MM OSR 64698	HALOLINE ECO SST 160 W 230 V R7S	3100 lm	3100 lm	R7s	160 W	160 W
MM OSR 64698	HALOLINE ECO SST 160 W 240 V R7S	3100 lm	3100 lm	R7s	160 W	160 W
MM OSR 64701	HALOLINE ECO SST 230 W 240 V R7S	5000 lm	5000 lm	R7s	230 W	230 W
MM OSR 64702	HALOLINE ECO SST 400 W 240 V R7S	9000 lm	9000 lm	R7s	400 W	400 W

OSRAM

HALOSTAR ECO SUPERSTAR

Code	Product	Nominal luminous flux	Rated luminous flux	Base (standard designation)	Rated wattage	Nominal wattage
MM OSR 67417	HALOSTAR ECO SST 7 W 12 V G4	95 lm	95 lm	G4	7 W	7 W
MM OSR 67423	HALOSTAR ECO SST 14 W 12 V G4	230 lm	230 lm	G4	14 W	14 W
MM OSR 67429	HALOSTAR ECO SST 25 W 12 V GY6.35	440 lm	440 lm	GY6.35	25 W	25 W
MM OSR 67432	HALOSTAR ECO SST 35 W 12 V GY6.35	670 lm	670 lm	GY6.35	35 W	35 W

OSRAM

HALOSTAR ECO

Code	Product	Nominal luminous flux	Rated luminous flux	Base (standard designation)	Rated wattage	Nominal wattage
MM OSR 64417	HALOSTAR ECO 7 W 12 V G4	105 lm	105 lm	G4	7 W	7 W
MM OSR 64423	HALOSTAR ECO 14 W 12 V G4	240 lm	240 lm	G4	14 W	14 W
MM OSR 64429	HALOSTAR ECO 25 W 12 V GY6.35	500 lm	500 lm	GY6.35	25 W	25 W
MM OSR 64432	HALOSTAR ECO 35 W 12 V GY6.35	860 lm	860 lm	GY6.35	35 W	35 W
MM OSR 64440	HALOSTAR ECO 50 W 12 V GY6.35	1180 lm	1180 lm	GY6.35	50 W	50 W
MM OSR 64447	HALOSTAR ECO 60 W 12 V GY6.35	1650 lm	1650 lm	GY6.35	60 W	60 W

OTHER BULB LIGHTS AVAILABLE UPON REQUEST

Please specify:
- Volt
- Watt
- Connection

OSRAM

OSRAM DULUXSTAR STICK

Code	Product	Rated wattage	Nominal wattage	Base (standard designation)	Rated luminous flux
MM OSR DULST82711E14	OSRAM DULUXSTAR STICK 11 W/827 E14	11 W	11 W	E14	600 lm
MM OSR DULST82711E27	OSRAM DULUXSTAR STICK 11 W/827 E27	11 W	11 W	E27	600 lm
MM OSR DULST86511E14	OSRAM DULUXSTAR STICK 11 W/865 E14	11 W	11 W	E14	540 lm
MM OSR DULST86511E27	OSRAM DULUXSTAR STICK 11 W/865 E27	11 W	11 W	E27	550 lm
MM OSR DULST82715E27	OSRAM DULUXSTAR STICK 15 W/827 E27	15 W	15 W	E27	840 lm
MM OSR DULST86515E27	OSRAM DULUXSTAR STICK 15 W/865 E27	15 W	15 W	E27	800 lm
MM OSR DULST82720E27	OSRAM DULUXSTAR STICK 20 W/827 E27	20 W	20 W	E27	1160 lm
MM OSR DULST86520E27	OSRAM DULUXSTAR STICK 20 W/865 E27	20 W	20 W	E27	1170 lm

OSRAM

OSRAM DULUXSTAR MINI TWIST

Code	Product	Rated wattage	Nominal wattage	Base (standard designation)	Claimed equiv. conventional lamp power	Rated luminous flux
MM OSR DULMT82711B22D	OSRAM DULUXSTAR MINI TWIST 11 W/827 B22D	11 W	11 W	B22d	54 W	650 lm
MM OSR DULMT82711E14	OSRAM DULUXSTAR MINI TWIST 11 W/827 E14	11 W	11 W	E14	54 W	650 lm
MM OSR DULMT82711E27	OSRAM DULUXSTAR MINI TWIST 11 W/827 E27	11 W	11 W	E27	54 W	650 lm
MM OSR DULMT86511E14	OSRAM DULUXSTAR MINI TWIST 11 W/865 E14	11 W	11 W	E14	51 W	600 lm
MM OSR DULMT86511E27	OSRAM DULUXSTAR MINI TWIST 11 W/865 E27	11 W	11 W	E27	51 W	600 lm
MM OSR DULMT82713B22D	OSRAM DULUXSTAR MINI TWIST 13 W/827 B22D	13 W	13 W	B22d	63 W	835 lm
MM OSR DULMT82713E27	OSRAM DULUXSTAR MINI TWIST 13 W/827 E27	13 W	13 W	E27	63 W	780 lm
MM OSR DULMT86513E27	OSRAM DULUXSTAR MINI TWIST 13 W/865 E27	13 W	13 W	E27	61 W	800 lm
MM OSR DULMT82718B22D	OSRAM DULUXSTAR MINI TWIST 18 W/827 B22D	18 W	18 W	B22d	86 W	1150 lm
MM OSR DULMT82718E27	OSRAM DULUXSTAR MINI TWIST 18 W/827 E27	18 W	18 W	E27	86 W	1150 lm
MM OSR DULMT86518E27	OSRAM DULUXSTAR MINI TWIST 18 W/865 E27	18 W	18 W	E27	83 W	1100 lm
MM OSR DULMT82723B22D	OSRAM DULUXSTAR MINI TWIST 23 W/827 B22D	23 W	23 W	B22d	107 W	1520 lm
MM OSR DULMT82723E27	OSRAM DULUXSTAR MINI TWIST 23 W/827 E27	23 W	23 W	E27	107 W	1520 lm
MM OSR DULMT86523E27	OSRAM DULUXSTAR MINI TWIST 23 W/865 E27	23 W	23 W	E27	101 W	1420 lm

OSRAM

OSRAM DULUXSTAR CLASSIC A

Code	Product	Rated wattage	Nominal wattage	Base (standard designation)	Claimed equiv. conventional lamp power	Rated luminous flux
MM OSR DULCLA82711E27	OSRAM DULUXSTAR CLASSIC A 11 W/827 E27	11 W	11 W	E27		540 lm
MM OSR DULCLA82715E27	OSRAM DULUXSTAR CLASSIC A 15 W/827 E27	15 W	15 W	E27	64 W	800 lm
MM OSR DULCLA82720E27	OSRAM DULUXSTAR CLASSIC A 20 W/827 E27	20 W	20 W	E27	84 W	1152 lm

OSRAM

OSRAM DULUXSTAR CLASSIC B

Code	Product	Rated wattage	Nominal wattage	Base (standard designation)	Claimed equiv. conventional lamp power	Rated luminous flux
MM OSR DULCLB8275E27	OSRAM DULUXSTAR CLASSIC B 5 W/827 E14	5 W	5 W	E14	22 W	200 lm
MM OSR DULCLB8279E27	OSRAM DULUXSTAR CLASSIC B 9 W/827 E14	9 W	9 W	E14		405 lm

OSRAM

LUMILUX T5 HE

Code	Product	Nominal wattage	Color rendering index Ra	Luminous flux at 25 °C	Luminous flux at 35 °C	Color temperature
MM OSR LUMT5HE14W827	HE 14 W/827	14 W	>=80	1200 lm	1350 lm	2700 K
MM OSR LUMT5HE14W830	HE 14 W/830	14 W	>=80	1200 lm	1350 lm	3000 K
MM OSR LUMT5HE14W835	HE 14 W/835	14 W	>=80	1200 lm	1350 lm	3500 K
MM OSR LUMT5HE14W840	HE 14 W/840	14 W	>=80	1200 lm	1350 lm	4000 K
MM OSR LUMT5HE14W865	HE 14 W/865	14 W	>=80	1100 lm	1300 lm	6500 K
MM OSR LUMT5HE14W880	HE 14 W/880 SKYWHITE	14 W	>=80	1080 lm	1150 lm	8000 K
MM OSR LUMT5HE21W827	HE 21 W/827	21 W	>=80	1900 lm	2100 lm	2700 K
MM OSR LUMT5HE21W830	HE 21 W/830	21 W	>=80	1900 lm	2100 lm	3000 K
MM OSR LUMT5HE21W835	HE 21 W/835	21 W	>=80	1900 lm	2100 lm	3500 K
MM OSR LUMT5HE21W840	HE 21 W/840	21 W	>=80	1900 lm	2100 lm	4000 K
MM OSR LUMT5HE21W865	HE 21 W/865	21 W	>=80	1750 lm	2000 lm	6500 K
MM OSR LUMT5HE21W880	HE 21 W/880 SKYWHITE	21 W	>=80	1700 lm	1850 lm	8000 K
MM OSR LUMT5HE28W827	HE 28 W/827	28 W	>=80	2600 lm	2900 lm	2700 K
MM OSR LUMT5HE28W830	HE 28 W/830	28 W	>=80	2600 lm	2900 lm	3000 K
MM OSR LUMT5HE28W835	HE 28 W/835	28 W	>=80	2600 lm	2900 lm	3500 K
MM OSR LUMT5HE28W840	HE 28 W/840	28 W	>=80	2600 lm	2900 lm	4000 K
MM OSR LUMT5HE28W850	HE 28 W/850	28 W	>=80		2500 lm	5000 K
MM OSR LUMT5HE28W865	HE 28 W/865	28 W	>=80	2400 lm	2750 lm	6500 K
MM OSR LUMT5HE28W880	HE 28 W/880 SKYWHITE	28 W	>=80	2350 lm	2690 lm	8000 K
MM OSR LUMT5HE35W827	HE 35 W/827	35 W	>=80	3320 lm	3650 lm	2700 K
MM OSR LUMT5HE35W830	HE 35 W/830	35 W	>=80	3320 lm	3650 lm	3000 K
MM OSR LUMT5HE35W835	HE 35 W/835	35 W	>=80	3320 lm	3650 lm	3500 K
MM OSR LUMT5HE35W840	HE 35 W/840	35 W	>=80	3320 lm	3650 lm	4000 K
MM OSR LUMT5HE35W865	HE 35 W/865	35 W	>=80	3050 lm	3500 lm	6500 K
MM OSR LUMT5HE35W880	HE 35 W/880 SKYWHITE	35 W	>=80	3000 lm	3450 lm	8000 K

OSRAM

LUMILUX T5 HO XT

Code	Product	Nominal wattage	Color rendering index Ra	Luminous flux at 25 °C	Luminous flux at 35 °C	Color temperature
MM OSR LUMHOXT49W827	HO XT 49 W/827	49 W	>=80	4300 lm	4900 lm	2700 K
MM OSR LUMHOXT49W830	HO XT 49 W/830	49 W	>=80	4300 lm	4900 lm	3000 K
MM OSR LUMHOXT49W840	HO XT 49 W/840	49 W	>=80	4300 lm	4900 lm	4000 K
MM OSR LUMHOXT49W865	HO XT 49 W/865	49 W	>=80	4100 lm	4900 lm	6500 K
MM OSR LUMHOXT54W827	HO XT 54 W/827	54 W	>=80	4450 lm	5000 lm	2700 K
MM OSR LUMHOXT54W830	HO XT 54 W/830	54 W	>=80	4450 lm	5000 lm	3000 K
MM OSR LUMHOXT54W840	HO XT 54 W/840	54 W	>=80	4450 lm	5000 lm	4000 K
MM OSR LUMHOXT54W865	HO XT 54 W/865	54 W	>=80	4100 lm	5000 lm	6500 K
MM OSR LUMHOXT80W827	HO XT 80 W/827	80 W	>=80	6150 lm	7000 lm	2700 K
MM OSR LUMHOXT80W830	HO XT 80 W/830	80 W	>=80	6150 lm	7000 lm	3000 K
MM OSR LUMHOXT80W840	HO XT 80 W/840	80 W	>=80	6150 lm	7000 lm	4000 K
MM OSR LUMHOXT80W865	HO XT 80 W/865	80 W	>=80	5700 lm	6650 lm	6500 K

OSRAM

LUMILUX T5 HO

Code	Product	Nominal wattage	Color rendering index Ra	Luminous flux at 25 °C	Luminous flux at 35 °C	Color temperature
MM OSR LUMT5HO24W827	HO 24 W/827	24 W	>=80	1750 lm	2000 lm	2700 K
MM OSR LUMT5HO24W830	HO 24 W/830	24 W	>=80	1750 lm	2000 lm	3000 K
MM OSR LUMT5HO24W835	HO 24 W/835	24 W	>=80	1750 lm	2000 lm	3500 K
MM OSR LUMT5HO24W840	HO 24 W/840	24 W	>=80	1750 lm	2000 lm	4000 K
MM OSR LUMT5HO24W865	HO 24 W/865	24 W	>=80	1600 lm	1900 lm	6500 K
MM OSR LUMT5HO24W880	HO 24 W/880 SKYWHITE	24 W	>=80	1550 lm	1750 lm	8000 K
MM OSR LUMT5HO39W827	HO 39 W/827	39 W	>=80	3100 lm	3500 lm	2700 K
MM OSR LUMT5HO39W830	HO 39 W/830	39 W	>=80	3100 lm	3500 lm	3000 K
MM OSR LUMT5HO39W840	HO 39 W/840	39 W	>=80	3100 lm	3500 lm	4000 K
MM OSR LUMT5HO39W865	HO 39 W/865	39 W	>=80	2850 lm	3325 lm	6500 K
MM OSR LUMT5HO49W827	HO 49 W/827	49 W	>=80	4310 lm	4900 lm	2700 K
MM OSR LUMT5HO49W830	HO 49 W/830	49 W	>=80	4310 lm	4900 lm	3000 K
MM OSR LUMT5HO49W840	HO 49 W/840	49 W	>=80	4310 lm	4900 lm	4000 K
MM OSR LUMT5HO49W865	HO 49 W/865	49 W	>=80	4100 lm	4600 lm	6500 K
MM OSR LUMT5HO49W880	HO 49 W/880 SKYWHITE	49 W	>=80	4050 lm	4610 lm	8000 K
MM OSR LUMT5HO54W827	HO 54 W/827	54 W	>=80	4450 lm	5000 lm	2700 K
MM OSR LUMT5HO54W830	HO 54 W/830	54 W	>=80	4450 lm	5000 lm	3000 K
MM OSR LUMT5HO54W835	HO 54 W/835	54 W	>=80	4450 lm	5000 lm	3500 K
MM OSR LUMT5HO54W840	HO 54 W/840	54 W	>=80	4450 lm	5000 lm	4000 K
MM OSR LUMT5HO54W865	HO 54 W/865	54 W	>=80	4100 lm	4750 lm	6500 K
MM OSR LUMT5HO54W880	HO 54 W/880 SKYWHITE	54 W	>=80	4500 lm	4500 lm	8000 K
MM OSR LUMT5HO80W827	HO 80 W/827	80 W	>=80	6150 lm	7000 lm	2700 K
MM OSR LUMT5HO80W830	HO 80 W/830	80 W	>=80	6150 lm	7000 lm	3000 K
MM OSR LUMT5HO80W840	HO 80 W/840	80 W	>=80	6150 lm	7000 lm	4000 K
MM OSR LUMT5HO80W865	HO 80 W/865	80 W	>=80	5700 lm	6650 lm	6500 K
MM OSR LUMT5HO80W880	HO 80 W/880 SKYWHITE	80 W	>=80	5550 lm	6400 lm	8000 K

OSRAM

LUMILUX T8

Code	Product	Nominal wattage	Color rendering index Ra	Luminous flux at 25 °C	Luminous flux at 35 °C	Color temperature
MM OSR LUMT10W827	L 10 W/827	10 W	>=80	650 lm		2700 K
MM OSR LUMT15W827	L 15 W/827	15 W	>=80	950 lm		2700 K
MM OSR LUMT15W830	L 15 W/830	15 W	>=80	950 lm		3000 K
MM OSR LUMT15W840	L 15 W/840	15 W	>=80	950 lm		4000 K
MM OSR LUMT15W865	L 15 W/865	15 W	>=80	900 lm		6500 K
MM OSR LUMT16W827	L 16 W/827	16 W	>=80	1250 lm		2700 K
MM OSR LUMT16W840	L 16 W/840	16 W	>=80	1250 lm		4000 K
MM OSR LUMT16W830	L 16 W/830	16 W	>80	1250 lm		
MM OSR LUMT16W827	L 18 W/827	18 W	>=80	1350 lm		2700 K
MM OSR LUMT18W830	L 18 W/830	18 W	>=80	1350 lm		3000 K
MM OSR LUMT18W835	L 18 W/835	18 W	>=80	1350 lm		3500 K
MM OSR LUMT18W840	L 18 W/840	18 W	>=80	1350 lm		4000 K
MM OSR LUMT18W865	L 18 W/865	18 W	>80	1300 lm		6500 K
MM OSR LUMT18W880	L 18 W/880 SKYWHITE	18 W	>=80	1300 lm		8000 K
MM OSR LUMT23W830	L 23 W/830	23 W	>=80	1900 lm		3000 K
MM OSR LUMT23W840	L 23 W/840	23 W	>=80	1900 lm		4000 K
MM OSR LUMT30W827	L 30 W/827	30 W	>=80	2400 lm		2700 K
MM OSR LUMT30W830	L 30 W/830	30 W	>=80	2400 lm		3000 K
MM OSR LUMT30W840	L 30 W/840	30 W	>=80	2400 lm		4000 K
MM OSR LUMT30W865	L 30 W/865	30 W	>=80	2350 lm		6500 K
MM OSR LUMT30W880	L 30 W/880 SKYWHITE	30 W	>=80	2350 lm		8000 K
MM OSR LUMT36W827	L 36 W/827	36 W	>=80	3350 lm		2700 K
MM OSR LUMT36W830	L 36 W/830	36 W	>=80	3350 lm		3000 K
MM OSR LUMT36W835	L 36 W/835	36 W	>=80	3350 lm		3500 K
MM OSR LUMT36W840	L 36 W/840	36 W	>=80	3350 lm		4000 K
MM OSR LUMT36W865	L 36 W/865	36 W	>=80	3250 lm		6500 K
MM OSR LUMT36W880	L 36 W/880 SKYWHITE	36 W	>=80	3010 lm		8000 K
MM OSR LUMT38W830	L 38 W/830	38 W	>=80	3300 lm		3000 K
MM OSR LUMT38W840	L 38 W/840	38 W	>=80	3300 lm		4000 K
MM OSR LUMT58W827	L 58 W/827	58 W	>=80	5200 lm		2700 K
MM OSR LUMT58W830	L 58 W/830	58 W	>=80	5200 lm		3000 K
MM OSR LUMT58W835	L 58 W/835	58 W	>=80	5200 lm		3500 K
MM OSR LUMT58W840	L 58 W/840	58 W	>=80	5200 lm		4000 K
MM OSR LUMT58W865	L 58 W/865	58 W	>=80	5000 lm		6500 K
MM OSR LUMT58W880	L 58 W/880 SKYWHITE	58 W	>=80	4900 lm		8000 K
MM OSR LUMT70W835	L 70 W/835	70 W	>=80	6200 lm		3500 K
MM OSR LUMT70W840	L 70 W/840	70 W	>=80	6200 lm		4000 K

OSRAM

LUMILUX T8 ES

Code	Product	Nominal wattage	Color rendering index Ra	Luminous flux at 25 °C	Luminous flux at 35 °C	Color temperature
MM OSR LUMT8ES16W830	L ES 16 W/830	16 W	>=80	1050 lm		3000 K
MM OSR LUMT8ES16W840	L ES 16 W/840	16 W	>=80	1050 lm		4000 K
MM OSR LUMT8ES32W830	L ES 32 W/830	32 W	>=80	2500 lm		3000 K
MM OSR LUMT8ES32W840	L ES 32 W/840	32 W	>=80	2500 lm		4000 K
MM OSR LUMT8ES51W830	L ES 51 W/830	51 W	>=80	4200 lm		3000 K
MM OSR LUMT8ES51W840	L ES 51 W/840	51 W	>=80	4200 lm		4000 K

OSRAM

SA-TYPE T12

Code	Product	Nominal wattage	Color rendering index Ra	Luminous flux at 25 °C	Luminous flux at 35 °C	Color temperature
MM OSR SAT1220W640	L SA 20 W/640	20 W	>=60	1200 lm		4000 K
MM OSR SAT1240W640	L SA 40 W/640	40 W	>=60	3000 lm		4000 K
MM OSR SAT1265W640	L SA 65 W/640	65 W	>=60	4800 lm		4000 K

OSRAM

XL-TYPE T12

Code	Product	Nominal wattage	Color rendering index Ra	Luminous flux at 25 °C	Luminous flux at 35 °C	Color temperature
MM OSR XLT1220W640	L XL 20 W/640	20 W	>=60	940 lm		4100 K
MM OSR XLT1240W640	L XL 40 W/640	40 W	>=60	2300 lm		4100 K
MM OSR XLT1265W640	L XL 65 W/640	65 W	>=60	4400 lm		4100 K

PHILIPS

STARTERS

Code	Product	Watts	Volts
MM PHI S12	Starter S12	115-140W	240 V
MM PHI S10	Starter S10	4-65W	240 V
MM PHI S2	Starter S2	4-22W	220 V

PHILIPS

GERMICIDAL - TUV PL-L

Code	Product	Length	Bulb Shape	Connection	Life
MM PHI 628787 40	TUV PL-L 36W/4P 1CT	385 (max) mm	2xT16	4 Pin - 2G11	9000 hr
MM PHI 633798 40	TUV PL-L 55W/4P HF 1CT	505 (max) mm	2xT16	4 Pin - 2G11	9000 hr
MM PHI 624925 40	TUV PL-L 55W/4P HF 1CT	195 (max) mm	2xT16	4 Pin - 2G11	9000 hr

PHILIPS

GERMICIDAL - TUV T8

Code	Product	Length	Bulb Shape	Connection	Life
MM PHI 895639 40	TUV 10W SLV	331.5 (max) mm	T26	G13	9000 hr
MM PHI 618511 10	TUV 75W HO 1SL	1199.4 (max) mm	T26	G13	9000 hr
MM PHI 618665 10	TUV 55W HO 1SL	894.6 (max) mm	T26	G13	9000 hr
MM PHI 726209 40	TUV 30W 1SL	894.6 (max) mm	T26	G13	9000 hr
MM PHI 726179 40	TUV 15W SLV	437.4 (max) mm	T26	G13	9000 hr
MM PHI 641618 40	TUV 25W 1SL	437.4 (max) mm	T26	G13	9000 hr
MM PHI 618542 10	TUV 36W SLV	1199.4 (max) mm	T26	G13	9000 hr

PHILIPS

GERMICIDAL - TUV PL-S

Code	Product	Length	Bulb Shape	Connection	Life
MM PHI 618245 80	TUV PL-S 9W/2P 1CT	129 (max) mm	2xT12	2 Pin - G23	9000 hr
MM PHI 642486 80	TUV PL-S 5W/2P 1CT	67 (max) mm	2xT12	2 Pin - G23	9000 hr
MM PHI 624888 80	TUV PL-S 11W/2P 1CT	198 (max) mm	2xT12	2 Pin - G23	9000 hr

PHILIPS

GERMICIDAL - TUV T5

Code	Product	Length	Bulb Shape	Connection	Life
MM PHI 642325 99	TUV 64T5 HE 4P SE UNP	1550.6 (min), 1553.6 (nom), 1556.6 (max) mm	T16	4 Pin attacco singolo	9000 hr
MM PHI 869708 99	TUV 36T5 HO 4P SE UNP	845.4 (max) mm	T16	4 Pin attacco singolo	9000 hr
MM PHI 642318 99	TUV 36T5 HE 4P SE UNP	839.4 (min), 842.4 (nom), 845.4 (max) mm	T16	4 Pin attacco singolo	9000 hr
MM PHI 261311 99	TUV 64T5 HO 4P SE UNP	1555.2 (max) mm	T16	4 Pin attacco singolo	9000 hr
MM PHI 640369 99	TUV 36T5 SP UNP	839.4 (min), 842.4 (nom), 845.4 (max) mm	T16	4 Pin attacco singolo	9000 hr
MM PHI 640796 99	TUV 64T5 HE SP UNP	1550.6 (min), 1553.6 (nom), 1556.6 (max) mm	T16	4 Pin attacco singolo	9000 hr

PHILIPS

GERMICIDAL - TUV AMALGAM XPT SYSTEMS

Code	Product	Length	Bulb Shape	Connection	Life
MM PHI 209436 05	TUV 130W XPT SE	842 (max) mm		G10.2q	

Schneider Electric

AUXILIARY CONTACTS

LADN11

LADN22

Code	Product
MM DEM TLLADN02	Auxiliary Contact LADN02
MM DEM TLLLADN11	Auxiliary Contact LADN11
MM DEM TLLLADN20	Auxiliary Contact LADN20
MM DEM TLLLADN22	Auxiliary Contact LADN22

BREAKERS, BLOCKS, RELAYS, SWITCHES

ALSO AVAILABLE UPON REQUEST

3F Filippi

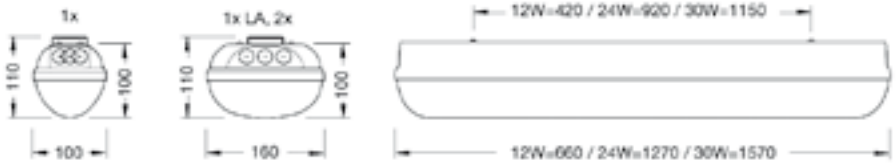
CEILING LIGHT FIXTURES - WATERPROOF AND CORROSION PROOF IP65

Normal

Transparent

Compact

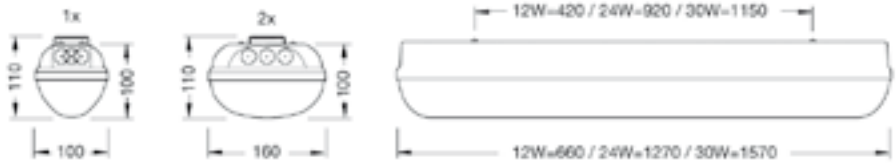
3F LINDA LED



Electronic EEI A2	
Code	Product
MM DEM3F 58561	3F Linda LED 1x12W L660
MM DEM3F 58572	3F Linda LED 2x12W L660
MM DEM3F 58583	3F Linda LED 1x24W L1270
MM DEM3F 58594	3F Linda LED 2x24W L1270
MM DEM3F 58605	3F Linda LED 1x30W L1570
MM DEM3F 58616	3F Linda LED 2x30W L1570

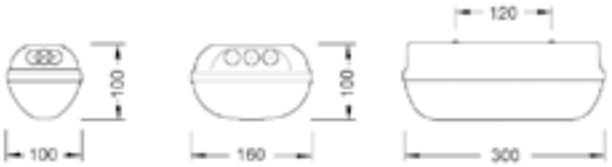
Emergency, fuse	
Code	Product
MM DEM3F 58567	3F Linda LED 1x12W EP LA L660
MM DEM3F 58578	3F Linda LED 2x12W EP L660
MM DEM3F 58589	3F Linda LED 1x24W EP L1270
MM DEM3F 58600	3F Linda LED 2x24W EP L1270
MM DEM3F 58611	3F Linda LED 1x30W EP L1570
MM DEM3F 58623	3F Linda LED 2x30W EP L1570
ENP emergency, fuse	
MM DEM3F 58705	3F Linda LED 1x12W ENP LA L660
MM DEM3F 58713	3F Linda LED 1x24W ENP L1270

3F LINDA LED TRANSPARENT



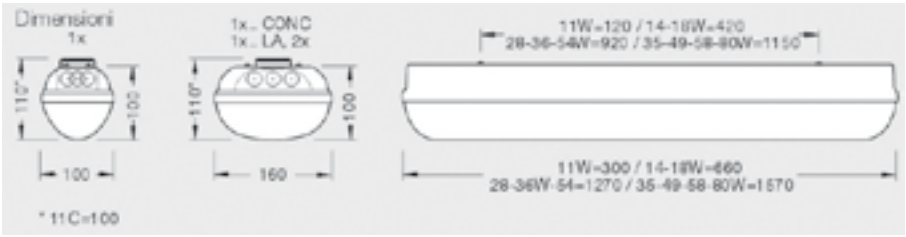
Electronic EEI A2	
Code	Product
MM DEM3F 58806	3F Linda LED Trasparente 1x12W L660
MM DEM3F 58808	3F Linda LED Trasparente 1x24W L1270
MM DEM3F 58809	3F Linda LED Trasparente 2x24W L1270
MM DEM3F 58810	3F Linda LED Trasparente 1x30W L1570
MM DEM3F 58811	3F Linda LED Trasparente 2x30W L1570

3F LINDA COMPACT LED



Electronic EEI A2	
Code	Product
MM DEM3F 5790	3F Linda Compatta LED 1x5W 100x300
MM DEM3F 5791	3F Linda Compatta LED 1x5W 160x300

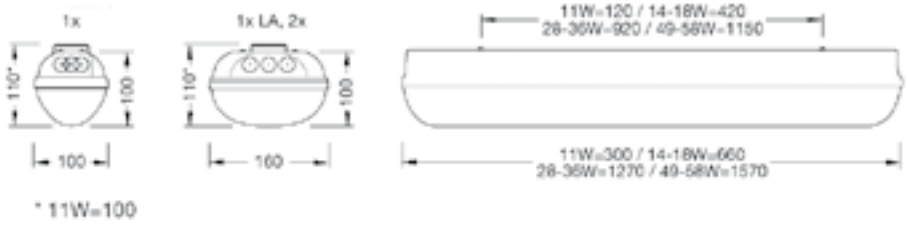
3F LINDA



Starter EEI B2, fuse	
Code	Product
MM DEM3F 5200	3F Linda 1x18
MM DEM3F 5201	3F Linda 1x36
MM DEM3F 5202	3F Linda 1x58
MM DEM3F 5203	3F Linda 2x18
MM DEM3F 5204	3F Linda 2x36
MM DEM3F 5205	3F Linda 2x58

Single-lamp version 160 mm wide	
Code	Product
MM DEM3F 5206	3F Linda 1x18 LA
MM DEM3F 5207	3F Linda 1x36 LA
MM DEM3F 5208	3F Linda 1x58 LA

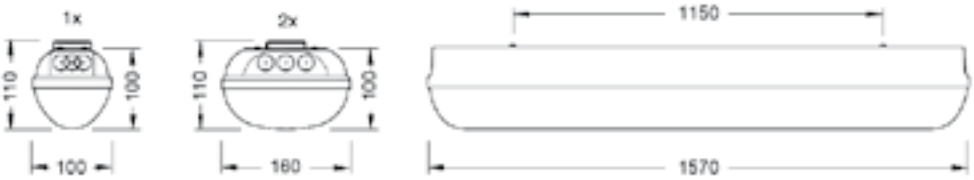
3F LINDA TRANSPARENT



T5 Electronic EEI A2	
Code	Product
MM DEM3F 5361	3F Linda Trasparente 1x14 T5 HF
MM DEM3F 5363	3F Linda Trasparente 1x28 T5 HF
MM DEM3F 5365	3F Linda Trasparente 1x49 T5 HF
MM DEM3F 5374	3F Linda Trasparente 2x28 T5 HF
MM DEM3F 5376	3F Linda Trasparente 2x49 T5 HF

T8 Electronic EEI A2	
Code	Product
MM DEM3F 5350	3F Linda Trasparente 1x18 HF
MM DEM3F 5351	3F Linda Trasparente 1x36 HF
MM DEM3F 5352	3F Linda Trasparente 1x58 HF
MM DEM3F 5354	3F Linda Trasparente 2x36 HF
MM DEM3F 5355	3F Linda Trasparente 2x58 HF

3F LINDA HS



3F Linda HS (Hard Skin) is a watertight polycarbonate luminaire with enhanced protection from corrosive chemicals.

Electronic EEI A2	
Code	Product
MM DEM3F 53934	3F Linda HS 1x49 T5 LD HF
MM DEM3F 53956	3F Linda HS 2x49 T5 LD HF

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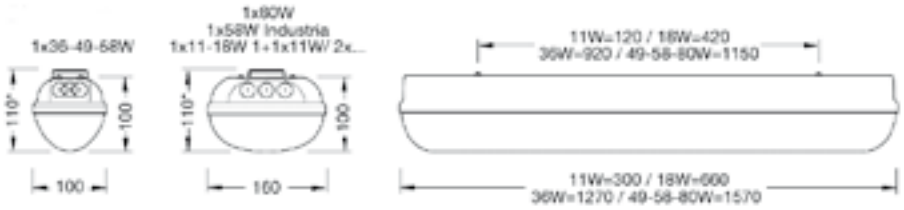
3F LINDA EMERGENCY



Starter EEI B2 - Emergency, fuse	
Code	Product
MM DEM3F 5235	3F Linda 1x18 ENP
MM DEM3F 5236	3F Linda 1x18 EP
MM DEM3F 5237	3F Linda 1x36 ENP
MM DEM3F 5238	3F Linda 1x36 EP
MM DEM3F 5239	3F Linda 1x58 EP
MM DEM3F 5240	3F Linda 2x18 EP
MM DEM3F 5241	3F Linda 2x36 EP
MM DEM3F 5242	3F Linda 2x58 EP

Compact A starter EEI B2 - Emergency, fuse	
Code	Product
MM DEM3F 5257	3F Linda 1x11 C ENP
MM DEM3F 5259	3F Linda 1+1x11 C ENP

LIGHTING

Cantalupi LIGHTING

SEALED™ 75 UNDERWATER LIGHT

Voltage:
Volts 10-30V DC AC
I=0,48A@12V I=0,24A@24V

Code	Materials	Power	Colours
MM CLP 90SEALE752SSNW	Stainless steel AISI 316 Fiberglass and Steel hulls	2 x POWERLED 5W	cool white
MM CLP 90SEALE752SSNB		2 x POWERLED 5W	blue
MM CLP 90SEALE752BRZNW	Bronze Fiberglass hulls	2 x POWERLED 5W	cool white
MM CLP 90SEALE752BRZNB		2 x POWERLED 5W	blue
MM CLP 90SEALE752ALNW	Aluminium 5083 Fiberglass and Aluminium hulls	2 x POWERLED 5W	cool white
MM CLP 90SEALE752ALNB		2 x POWERLED 5W	blue
MM CLP 90SEALE752PPSNW	PPS (polyephenylene sulfide resin) Fiberglass, Aluminium and Steel hulls	2 x POWERLED 5W	cool white
MM CLP 90SEALE752PPSNB		2 x POWERLED 5W	blue

Cantalupi LIGHTING

SEALED™ 120 UNDERWATER LIGHT

Voltage:
Volts 10-30V DC AC
I=0,94A@12V I=0,47A@24V

Code	Materials	Power	Colours
MM CLP 90SEALE1204SSNW	Stainless steel AISI 316 Fiberglass and Steel hulls	4 x POWERLED 5W	cool white
MM CLP 90SEALE1204SSNB		4 x POWERLED 5W	blue
MM CLP 90SEALE1204BRZNW	Bronze Fiberglass hulls	4 x POWERLED 5W	cool white
MM CLP 90SEALE1204BRZNB		4 x POWERLED 5W	blue
MM CLP 90SEALE1204ALNW	Aluminium 5083 Fiberglass and Aluminium hulls	4 x POWERLED 5W	cool white
MM CLP 90SEALE1204ALNB		4 x POWERLED 5W	blue
MM CLP 90SEALE1204PPSNW	PPS (polyephenylene sulfide resin) Fiberglass, Aluminium and Steel hulls	4 x POWERLED 5W	cool white
MM CLP 90SEALE1204PPSNB		4 x POWERLED 5W	blue

Cantalupi LIGHTING

SEALED™ 160 UNDERWATER LIGHT

Voltage:
Volts 20-30V DC AC
I=0,9A@24V

Code	Materials	Power	Colours
MM CLP 90SEALE1608SSNW	Stainless steel AISI 316 Fiberglass and Steel hulls	8 x POWERLED 5W	cool white
MM CLP 90SEALE1608SSNW		8 x POWERLED 5W	blue
MM CLP 90SEALE1608SSNB	Bronze Fiberglass hulls	8 x POWERLED 5W	cool white
MM CLP 90SEALE1608BRZNB		8 x POWERLED 5W	blue
MM CLP 90SEALE1608BRZNW	Aluminium 5083 Fiberglass and Aluminium hulls	8 x POWERLED 5W	cool white
MM CLP 90SEALE1608BRZNW		8 x POWERLED 5W	blue
MM CLP 90SEALE1608BRZNB	PPS (polyephenylene sulfide resin) Fiberglass, Aluminium and Steel hulls	8 x POWERLED 5W	cool white
MM CLP 90SEALE1608BRZNW		8 x POWERLED 5W	blue

Cantalupi LIGHTING

VIAREGGIO Q - FOR INTERIORS - ADJUSTABLE - SANDED GLASS

Voltage: 12-24V 20W max

Also available:
POWERLED 6W@10/30V

Code		Finishes	Bulb	Volts	Max watts
MM CLP 20VIARE94GCHS	downlight	Chromium plated brass Only for interiors	1 x G4 20W	12/24	20
MM CLP 306FAROQUADCH	frame				
MM CLP 20VIARE94GLAS	downlight	White RAL 9010 lacquered brass Only for interiors	1 x G4 20W	12/24	20
MM CLP 306FAROQUADLA	frame				
MM CLP 20VIARE94GF1S	downlight	Matt brushed nickel brass Only for interiors	1 x G4 20W	12/24	20
MM CLP 306FAROQUADF1	frame				
MM CLP 20VIARE94GGOS	downlight	Gold plated brass Only for interiors	1 x G4 20W	12/24	20
MM CLP 306FAROQUADGO	frame				

Cantalupi LIGHTING

VIAREGGIO - FOR INTERIORS - ADJUSTABLE - SANDED GLASS

Voltage: 12-24V 20W max

Also available:
POWERLED 6W@10/30V

Code	Finishes	Bulb	Volts	Max watts
MM CLP 20VIARE94GCHS	Chromium plated brass Only for interiors	1 x G4 20W	12/24	20
MM CLP 20VIARE94GLAS	White RAL 9010 lacquered brass Only for interiors	1 x G4 20W	12/24	20
MM CLP 20VIARE94GF1S	Matt brushed nickel brass Only for interiors	1 x G4 20W	12/24	20
MM CLP 20VIARE94GGOS	Gold plated brass Only for interiors	1 x G4 20W	12/24	20

Cantalupi LIGHTING

SIRIO - FOR INTERIORS AND EXTERIORS - RESISTANT TO THERMAL SHOCK - SANDED GLASS

Voltage: 12-24V 20W max

Code	Finishes	Bulb	Volts	Max watts
MM CLP 20SIRIO80GSSS	Polished AISI 316 stainless steel For interiors and exteriors	1 x G4 20W	12/24	20
MM CLP 20SIRIO80GLAS	White RAL 9010 lacquered AISI 316 s/steel For interiors and exteriors	1 x G4 20W	12/24	20
MM CLP 20SIRIO80GF1S	Matt nickel plated AISI 316 s/steel Only for interiors	1 x G4 20W	12/24	20
MM CLP 20SIRIO80GGOS	Gold plated AISI 316 s/steel Only for interiors	1 x G4 20W	12/24	20

Cantalupi LIGHTING

MAGIC - FOR INTERIORS - SMALL DIMENSIONS - LOW CONSUMPTION - ADJUSTABLE - SANDED GLASS

Voltage: 12-24V 10W max

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Code	Finishes	Bulb	Volts	Max watts
MM CLP 20MAGIC65GCHS	Chromium plated brass Only for interiors	1 x G4 10W	12/24	10
MM CLP 20MAGIC65GLAS	White RAL 9010 lacquered brass Only for interiors	1 x G4 10W	12/24	10
MM CLP 20MAGIC65GF1S	Matt brushed nickel brass Only for interiors	1 x G4 10W	12/24	10
MM CLP 20MAGIC65GGOS	Gold plated brass Only for interiors	1 x G4 10W	12/24	10

Cantalupi LIGHTING

EROS - FOR INTERIORS - SMALL DIMENSIONS - LOW CONSUMPTION - ADJUSTABLE - SANDED GLASS

Code	Finishes	Bulb	Volts	Max watts
MM CLP 20EROS65GCHS	Chromium plated brass Only for interiors	1 x G4 10W	12/24	10
MM CLP 20EROS65GLAS	White RAL 9010 lacquered brass Only for interiors	1 x G4 10W	12/24	10
MM CLP 20EROS65GF1S	Matt brushed nickel brass Only for interiors	1 x G4 10W	12/24	10
MM CLP 20EROS65GGOS	Gold plated brass Only for interiors	1 x G4 10W	12/24	10

Voltage: 12-24V 10W max

Cantalupi LIGHTING

PEGASUS - FLEXIBLE - WITH SWITCH

Code	Finishes	Bulb	Volts	Max watts
MM CLP 53PEGAS300GSCH	Chromium plated brass Only for interiors	1 x G4 10W	12/24	10
MM CLP 53PEGAS300GSF1	Matt brushed nickel brass Only for interiors	1 x G4 10W	12/24	10
MM CLP 53PEGAS300GSGO	Gold plated brass Only for interiors	1 x G4 10W	12/24	10

Voltage: 12-24V 10W max

Cantalupi LIGHTING

TYPHOON - FOR INTERIORS AND EXTERIORS - RESISTANT TO THERMAL SHOCK - SANDED POLYCARBONATE

Code	Finishes	Bulb	Volts	Max watts
MM CLP 10TYPHOGSS	Polished AISI 316 stainless steel For interiors and exteriors	1 x G4 20W	12/24	20
MM CLP 10TYPHOGLA	White RAL 9010 lacquered AISI 316 s/steel For interiors and exteriors	1 x G4 20W	12/24	20
MM CLP 10TYPHOGF1	Matt nickel plated AISI 316 s/steel Only for interiors	1 x G4 20W	12/24	20
MM CLP 10TYPHOGGO	Gold plated AISI 316 s/steel Only for interiors	1 x G4 20W	12/24	20

Voltage: 12-24V 10W max

Cantalupi LIGHTING

TORNADO - FOR INTERIORS AND EXTERIORS - RESISTANT TO THERMAL SHOCK - SANDED POLYCARBONATE

Code	Finishes	Bulb	Volts	Max watts
MM CLP 30TORNAW2XSSW	Polished AISI 316 stainless steel For interiors and exteriors	1 x W2x4,6D 2W	12/24	2
MM CLP 30TORNAW2XF1W	White RAL 9010 lacquered AISI 316 s/steel For interiors and exteriors	1 x W2x4,6D 2W	12/24	2
MM CLP 30TORNAW2XGOW	Matt nickel plated AISI 316 s/steel Only for interiors	1 x W2x4,6D 2W	12/24	2
MM CLP 30TORNAW2XLAW	Gold plated AISI 316 s/steel Only for interiors	1 x W2x4,6D 2W	12/24	2

Voltage: 12-24V 2W max

Cantalupi LIGHTING

FARO - FOR INTERIORS - ADJUSTABLE DOWNLIGHT

Voltage: 110-230V 35W

Code	Finishes	Bulb	Volts	Max watts
MM CLP 20FARO94GZ1CH	Chromium plated brass Only for interiors	1 x GZ10 35W	110/230	35
MM CLP 20FARO94GZ1F1	White lacquered brass RAL 9010 Only for interiors	1 x GZ10 35W	110/230	35
MM CLP 20FARO94GZ1GO	Matt brushed nickel brass Only for interiors	1 x GZ10 35W	110/230	35
MM CLP 20FARO94GZ1LA	Gold plated brass Only for interiors	1 x GZ10 35W	110/230	35

Cantalupi LIGHTING

FARO Q - FOR INTERIORS - ADJUSTABLE DOWNLIGHT

Voltage: 110-230V 35W

Code		Finishes	Bulb	Volts	Max watts
MM CLP 20FARO94GZ1CH	downlight	Chromium plated brass Only for interiors	1 x GZ10 35W	110/230	35
MM CLP 306FAROQUADCH	frame				
MM CLP 20FARO94GZ1LA	downlight	White lacquered brass RAL 9010 Only for interiors	1 x GZ10 35W	110/230	35
MM CLP 306FAROQUADLA	frame				
MM CLP 20FARO94GZ1F1	downlight	Matt brushed nickel brass Only for interiors	1 x GZ10 35W	110/230	35
MM CLP 306FAROQUADF1	frame				
MM CLP 20FARO94GZ1GO	downlight	Gold plated brass Only for interiors	1 x GZ10 35W	110/230	35
MM CLP 306FAROQUADGO	frame				

Cantalupi LIGHTING

LUISELLA Ø235/45 - FOR INTERIORS AND EXTERIORS - RESISTANT TO THERMAL SHOCK - SANDED GLASS

Voltage: 110-230V 2xPL7 7W
110-230V 2xE14 25W

Code	Finishes	Bulb	Volts	Max watts
MM CLP 10LUISE235L2P1SS	Polished AISI 316 stainless steel For interiors and exteriors	2 x PL7 7W	110	14
MM CLP 10LUISE235L2P2SS		2 x PL7 7W	230	14
MM CLP 10LUISE235L2EGSS		2 x E14 25W	110-230	50
MM CLP 10LUISE235L2P1LA	White RAL 9010 lacquered AISI 316 s/steel For interiors and exteriors	2 x PL7 7W	110	14
MM CLP 10LUISE235L2P2LA		2 x PL7 7W	230	14
MM CLP 10LUISE235L2EGLA		2 x E14 25W	110-230	50
MM CLP 10LUISE235L2P1F1	Matt nickel plated AISI 316 s/steel Only for interiors	2 x PL7 7W	110	14
MM CLP 10LUISE235L2P2F1		2 x PL7 7W	230	14
MM CLP 10LUISE235L2EGF1		2 x E14 25W	110-230	50
MM CLP 10LUISE235L2P1GO	Gold plated AISI 316 s/steel Only for interiors	2 x PL7 7W	110	14
MM CLP 10LUISE235L2P2GO		2 x PL7 7W	230	14
MM CLP 10LUISE235L2EGGO		2 x E14 25W	110-230	50

Get in touch with us for quotations and/or further details.

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Cantalupi LIGHTING

LUISELLA Ø180/45 - FOR INTERIORS AND EXTERIORS - RESISTANT TO THERMAL SHOCK - SANDED GLASS

Code	Finishes	Bulb	Volts	Max watts
MM CLP 10LUISE180HEGSS	Polished AISI 316 stainless steel For interiors and exteriors	1 x E14 25W	110/230	25
MM CLP 10LUISE180HEGLA	White RAL 9010 lacquered AISI 316 s/steel For interiors and exteriors	1 x E14 25W	110/230	25
MM CLP 10LUISE180HEGF1	Matt nickel plated AISI 316 s/steel Only for interiors	1 x E14 25W	110/230	25
MM CLP 10LUISE180HEGGO	Gold plated AISI 316 s/steel Only for interiors	1 x E14 25W	110/230	25

Voltage: 110-230V 1xE14 25W
Also available: 40W@12/24V

Cantalupi LIGHTING

CHARLY BOY Ø235/45 - FOR INTERIORS AND EXTERIORS - RESISTANT TO THERMAL SHOCK - SANDED GLASS

Code	Finishes	Bulb	Volts	Max watts
MM CLP 10CHARL235L2P1SS	Polished AISI 316 stainless steel For interiors and exteriors	2 x PL7 7W	110	14
MM CLP 10CHARL235L2P2SS		2 x PL7 7W	230	14
MM CLP 10CHARL235L2EGSS		2 x E14 25W	110-230	50
MM CLP 10CHARL235L2P1LA	White RAL 9010 lacquered AISI 316 s/steel For interiors and exteriors	2 x PL7 7W	110	14
MM CLP 10CHARL235L2P2LA		2 x PL7 7W	230	14
MM CLP 10CHARL235L2EGLA		2 x E14 25W	110-230	50
MM CLP 10CHARL235L2P1F1	Matt nickel plated AISI 316 s/steel Only for interiors	2 x PL7 7W	110	14
MM CLP 10CHARL235L2P2F1		2 x PL7 7W	230	14
MM CLP 10CHARL235L2EGF1		2 x E14 25W	110-230	50
MM CLP 10CHARL235L2P1GO	Gold plated AISI 316 s/steel Only for interiors	2 x PL7 7W	110	14
MM CLP 10CHARL235L2P2GO		2 x PL7 7W	230	14
MM CLP 10CHARL235L2EGGO		2 x E14 25W	110-230	50

Voltage: 110-230V 2xPL7 7W
110-230V 2xE14 25W

Cantalupi LIGHTING

CHARLY BOY Ø180/45 - FOR INTERIORS AND EXTERIORS - RESISTANT TO THERMAL SHOCK - SANDED GLASS

Code	Finishes	Bulb	Volts	Max watts
MM CLP 10CHARL180HEGSS	Polished AISI 316 stainless steel For interiors and exteriors	1 x E14 25W	110/230	25
MM CLP 10CHARL180HEGLA	White RAL 9010 lacquered AISI 316 s/steel For interiors and exteriors	1 x E14 25W	110/230	25
MM CLP 10CHARL180HEGF1	Matt nickel plated AISI 316 s/steel Only for interiors	1 x E14 25W	110/230	25
MM CLP 10CHARL180HEGGO	Gold plated AISI 316 s/steel Only for interiors	1 x E14 25W	110/230	25

Voltage: 110-230V 1xE14 25W
Also available: 40W@12/24V

Cantalupi LIGHTING

PIXEL LED STRIP - ULTRAFLEXIBLE - DIMMABLE WITH DIMMER CLL - MONOCHROMATIC

Code	Colours	Luminousity		Power supply range	Consumption	Dimensions	Installation	Min cut	Power supply line max length
		Surface	Dist. 0,5 mt 19,7 in						
MM CLP 83PIXEL24WPW	Cool white	18.000 Lux	92 Lux	20-28 V DC	4,8 W/mt	13,5 mm x 4,5 mm x 3.000 mm	Clips or adhesive	3,93 in or multiples	236,22 in (2 strips x 118,11 in)
MM CLP 83PIXEL24WPWW	Warm white	9.500 Lux	60 Lux						
MM CLP 83PIXEL24WPB	Blue	10.000 Lux	70 Lux						

Cantalupi LIGHTING

PIXEL RGB LED STRIP - MULTICOLOR RGB - ULTRAFLEXIBLE - DIMMABLE WITH DIMMER CLL

Code	Colours	Luminousity		Power supply range	Consumption	Dimensions	Installation	Min cut	Power supply line max length
		Surface	Dist. 0,5 mt 19,7 in						
MM CLP 83PIXEL24WPRGB	RGB	21.000 Lux	270 Lux	24 V DC +/- 10%*	14,4 W/mt max	13,5 mm x 4,5 mm x 3.000 mm	Clips or adhesive	3,93 in or multiples	3.000 mm - 118,11 in

* Needs a 3-way Dimmer CLL, stabilized voltage and RGB Control (touch screen or push button)

Cantalupi LIGHTING

ALUM ALUMINIUM LED STRIP - MONOCHROMATIC - DIMMABLE WITH DIMMER CLL

Code	Colours	Luminousity		Power supply range	Consumption	Dimensions	Installation	Min cut	Power supply line max length
		Surface	Dist. 0,5 mt 19,7 in						
MM CLP 83ALUM24WPW	Cool white	18.000 Lux	92 Lux	24 V DC +/- 5% Needs stabilized voltage	9 W/mt	24 mm x 10 mm x 1.000 mm	Clips	1.000 mm - 39,3 in	3.000 mm - 118,11 in
MM CLP 83ALUM24WPWW	Warm white	9.500 Lux	60 Lux						
MM CLP 83ALUM24WPB	Blue	10.000 Lux	70 Lux						

Cantalupi LIGHTING

ECLIPSE LED TUBE - FLEXIBLE MONOCHROMATIC DIMMABLE WITH DIMMER CLL

Code	Colours	Power supply range	Consumption	Dimensions	Installation	Min cut	Power supply line max length
MM CLP 83ECLIP112324WPW	Cool white	24 V DC +/- 5% Needs stabilized voltage	6,2 W/mt	11,5 mm x 23 mm x 10.000 mm	U brackets	2,95 in or multiples	10.000 mm - 393,7 in
MM CLP 83ECLIP112324WPWW	Warm white						
MM CLP 83ECLIP112324WPB	Blue						

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TORCHES

MAG-LITE®

D-CELL FLASHLIGHTS

Code	Model	Overall Length	Barrel Diameter	Head Diameter	Weight with battery	Batteries Required
MM MAG 2D-CELL	2-cell D Mag-Lite® flashlight	10 in. 254 mm	1-9/16 in. 39.67 mm	2-1/4 in. 57.00 mm	23 oz. 674 g	(2) D size alkaline
MM MAG 3D-CELL	3-cell D Mag-Lite® flashlight	12-11/32 in. 313 mm	1-9/16 in. 39.67 mm	2-1/4 in. 57.00 mm	30 oz. 856 g	(3) D size alkaline
MM MAG 4D-CELL	4-cell D Mag-Lite® flashlight	14-23/32 in. 374 mm	1-9/16 in. 39.67 mm	2-1/4 in. 57.00 mm	36 oz. 1043 g	(4) D size alkaline
MM MAG 5D-CELL	5-cell D Mag-Lite® flashlight	17-1/8 in. 434 mm	1-9/16 in. 39.67 mm	2-1/4 in. 57.00 mm	43 oz. 1233 g	(5) D size alkaline
MM MAG 6D-CELL	6-cell D Mag-Lite® flashlight	19-1/2 in. 495 mm	1-9/16 in. 39.67 mm	2-1/4 in. 57.00 mm	50 oz. 1417 g	(6) D size alkaline

MAG-LITE®

C-CELL FLASHLIGHTS

Code	Model	Overall Length	Barrel Diameter	Head Diameter	Weight with battery	Batteries Required
MM MAG 2C-CELL	2-cell C Mag-Lite® flashlight	8-15/16 in. 227 mm	1-1/4 in. 31.75 mm	2-1/4 in. 57.00 mm	15 oz. 445 g	(2) C size alkaline
MM MAG 3C-CELL	3-cell C Mag-Lite® flashlight	10-7/8 in. 276 mm	1-1/4 in. 31.75 mm	2-1/4 in. 57.00 mm	19 oz. 541 g	(3) C size alkaline
MM MAG 4C-CELL	4-cell C Mag-Lite® flashlight	12-13/16 in. 325 mm	1-1/4 in. 31.75 mm	2-1/4 in. 57.00 mm	22 oz. 637 g	(4) C size alkaline

MAG-LITE®

MAG CHARGER

Code: MM MAG GRX4019

The New Mag Charger® Rechargeable flashlight system combines long famous MAG-LITE® beauty, reliability and beam-adjustability with a powerful New Halogen Lamp and New Electronic Switch which includes an array of USER-CONFIGURABLE FUNCTION SETS.

Specifications
Length: 12-19/32" (319.79 mm)
Barrel Diameter: 1-9/16" (39.67 mm)
Head Diameter: 2-5/16" (58.72 mm)
Weight with batteries: 32 oz. (907.18 g)

Package includes:
- Charging Cradle
- 120 Volt Converter
- 12 Volt Power Adapter
- NiMH Rechargeable Battery Pack
- Mounting Brackets (2)

MAG CHARGER REPLACEMENT BATTERY

Code: MM MAG XX235

PELI

1910 LED

Code	Light source	Batteries	Length	Approvals	ANSI Standards
MM PEL 1910 LED	LED	1 AAA Alkaline (Included)	3.6" (9.1 cm)	N/A	Light output: 39 lumens Runtime: 1h Water resistant

Colours

PELI

1920 LED

Code	Light source	Batteries	Length	Approvals	ANSI Standards
MM PEL 1920 LED	LED	2 AAA Alkaline (Included)	5.3" (13.5 cm)	N/A	Light output: 67 lumens Runtime: 2h 45 min Water resistant

Colours

PELI

MITY LITE ™ 1900

Code	Light source	Batteries	Length	Approvals	ANSI Standards
MM PEL MITYLITE1900	XENON	2 AAA Alkaline (Included)	4.09" (10.4cm)	C1 D1 Ex ib e IIC T4 IP67 IEC Ex TSA 06.0021X	Light output: 11 lumens Runtime: 1h 30 min Waterproof & submersible 1 mt

Colours

PELI

MITY LITE ™ 2300

Code	Light source	Batteries	Length	Approvals	ANSI Standards
MM PEL MITYLITE2300	XENON	2 AA Alkaline (Included)	5.62" (14.3cm)	CI D1	Light output: 11 lumens Runtime: 4h 30 min Water resistant

Colours

PELI

MITY LITE ™ 2340

Code	Light source	Batteries	Length	Approvals	ANSI Standards
MM PEL MITYLITE2340	XENON	2 AA Alkaline (Included in select packaging)	6.25" (15.9cm)	CI D1 Ex ib e IIC T4 IP67 IEC Ex TSA 06.0021X	Light output: 10 lumens Runtime: 4h 30 min Water resistant

Colours

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PELI™

PM6 3320

Code	Light source	Batteries	Length	Approvals	ANSI Standards
MM PEL PM6 3320	XENON	2 CR123 Lithium (Included)	5.27" (13.4cm)	N/A	Light output: 81 lumens Runtime: 1h 30 min Water resistant

Colours

PELI™

M11 RECHARGEABLE 8050

Code	Light source	Batteries	Length	Approvals	ANSI Standards
MM PEL M11 8050	XENON	4C Ni-MH (Included)	11.25" (28.6cm)	N/A	Light output: 154 lumens Runtime: 2h 15 min Water resistant

Colours

PELI™

M6 2330 LED

Code	Light source	Batteries	Length	Approvals	ANSI Standards
MM PEL M6 2330 LED	LED	2 CR123 Lithium (Included)	5.51" (14cm)	N/A	Light output: 100 lumens Runtime: 6h Water resistant

Colours

PELI™

2360 LED

Code	Light source	Batteries	Length	Approvals	ANSI Standards
MM PEL 2360 LED	LED	2 AA Alkaline (Included)	6.1" (15.5cm)	N/A	Light output: 94 lumens Runtime: 2h 15 min Water resistant

Colours

PELI™

M6 3W 2390 LED

Code	Light source	Batteries	Length	Approvals	ANSI Standards
MM PEL M6 3W 2390 LED	LED	2 CR123 Lithium (Included)	5.31" (13.5cm)	N/A	Light output: 94 lumens Runtime: 2h 15 min Water resistant

Colours

PELI

HEADS UP LITE ™ 2620

Code	Light source	Batteries	Length	Approvals	ANSI Standards	
					High	Low
MM PEL HEADS UP LITE 2620	Xenon (high) LED (low)	3 AAA Alkaline (Included)	2.16" (5.5cm)	C1 D1 II 3 G EEx nL IIC T3X	Light output: 26 lumens Runtime: 2h 15min Water resistant	Light output: 14 lumens Runtime: 18h Water resistant

Colours

PELI

HEADS UP LITE ™ 2640

Code	Light source	Batteries	Length	Approvals	ANSI Standards	
					High	Low
MM PEL HEADS UP LITE 2640	Halogen (high) LED (low)	4 AA Alkaline (Included)	2.63" (6.7cm)	C1 D2 II 3 G EEx nL IIC T3X	Light output: 29 lumens Runtime: 2h 45min Water resistant	Light output: 16 lumens Runtime: 17h Water resistant

Colours

PELI

HEADS UP LITE ™ 2680 RECOIL ™ LED

Code	Light source	Batteries	Length	Approvals	ANSI Standards
MM PEL HEADS UP LITE 2680	RecoilTM LED	4 AA Alkaline (Included)	4.64" (11.8cm)	CI II III D2	Light output: 79 lumens Runtime: 10h Waterproof & Submersible: 1 m

Colours

PELI

HEADSUP LITE™ 2710

Code	Light source	Batteries	Length	Approvals	ANSI Standards	
					High	Low
MM PEL HEADSUP LITE 2710	LED	2 AAA Alkaline (Included)	2.58" (6,6cm)	N/A	Light output: 24 lumens Runtime: 2h Water resistant	Light output: 7 lumens Runtime: 5h Water resistant

Colours

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HEADSUP LITE™ 2720

Code	Light source	Batteries	Length	Approvals	ANSI Standards	
					High	Low
MM PEL HEADSUP LITE 2720	LED	3 AAA Alkaline (Included)	2.48" (6.3cm)	N/A	Light output: 80 lumens Runtime: 8h Water resistant	Light output: 5 lumens Runtime: 175h Water resistant

Colours

MITY LITE ™ 1900Z1

Code	Light source	Batteries	Length	Approvals	ANSI Standards
MM PEL MITY LITE 1900Z1	Xenon	2 Alkaline (Included)	4.09" (10.4 cm)	II 2G Ex e ib IIB T4, II 2D Ex ibD 21 IP67 T100°C	Light output: 11 lumens Runtime: 1h 30min Waterproof & Submersible: 1 m

Colours

L1 1930Z0

Code	Light source	Batteries	Length	Approvals	ANSI Standards
MM PEL L1 1930Z0	LED	4 LR 44 Alkaline (Included)	2.64" (6.7 cm)	II 1 GD Ex ia IIC T4 Ga Ex iaD 20 IP65 T90°C Da	Light output: 12 lumens Runtime: 4h 15min Water resistant

Colours

MITY LITE ™ 1965Z0

Code	Light source	Batteries	Length	Approvals	ANSI Standards
MM PEL MITY LITE 1965Z0	LED	2 Alkaline AAA (Included)	5.48" (13.9 cm)	II 1 GD Ex ia IIC T4 Ga Ex iaD 20 IP65 T90°C Da	Light output: 21 lumens Runtime: 4h Waterproof & Submersible: 1 m

Colours

SABRE LITE ™ 2000Z1

Code	Light source	Batteries	Length	Approvals	ANSI Standards
MM PEL SABRE LITE 2000Z1	Xenon	3 C Alkaline (Not included)	7.79" (19.8 cm)	II 2 G Ex e ib IIC T4	Light output: 39 lumens Runtime: 6h Waterproof & Submersible: 1 m

Colours

PELI™

NEMO ™ 2000

Code	Light source	Batteries	Length	Approvals	ANSI Standards
MM PEL NEMO 2000	Xenon	3 C Alkaline (Not included)	7.79" (19.8cm)	N/A	Light output: 53 lumens Runtime: 5h Waterproof & submersible 100 mt

Colours

PELI™

NEMO ™ 2400

Code	Light source	Batteries	Length	Approvals	ANSI Standards
MM PEL NEMO 2400	Xenon	4 AA Alkaline (Included)	6.49" (16.5cm)	N/A	Light output: 45 lumens Runtime: 3h 45min Waterproof & submersible 100 mt

Colours

PELI™

NEMO ™ 4300

Code	Light source	Batteries	Length	Approvals	ANSI Standards
MM PEL NEMO 4300	Xenon	8 C Alkaline (Not included)	6.49" (16.5cm)	N/A	Light output: 175 lumens Runtime: 6h Waterproof & submersible 100 mt

Colours

SUREFIRE.

THE T1A TITAN®

Code	Max Output	Low Output / Runtime	Tactical Runtime*	Length	Bezel Diameter	Weight w/ Batteries	Batteries
MM SUR T1A TITAN	70.0 lumens	1.0 lumens / 60 hours	1.0 hours	3.25 inches	0.80 inches	2.0 ounces	1 123A

*Total runtime (at highest setting for multiple-output flashlights) until output drops below 50 lumens

SUREFIRE.

E1L OUTDOORSMAN

Code	Max Output	Low Output / Runtime	Tactical Runtime*	Length	Bezel Diameter	Weight w/ Batteries	Batteries
MM SUR E1L OUTDOORSMAN							

*Total runtime (at highest setting for multiple-output flashlights) until output drops below 50 lumens

SUREFIRE

E1B BACKUP®

Code	Max Output	Low Output / Runtime	Tactical Runtime*	Length	Bezel Diameter	Weight w/ Batteries	Batteries
MM SUR E1B BACKUP	110.0 lumens	5.0 lumens / 37 hours	1.3 hours	4.00 inches	1.00 inches	2.8 ounces	1 123A

*Total runtime (at highest setting for multiple-output flashlights) until output drops below 50 lumens

SUREFIRE

L1 LUMAMAX®

Code	Max Output	Low Output / Runtime	Tactical Runtime*	Length	Bezel Diameter	Weight w/ Batteries	Batteries
MM SUR L1 LUMAMAX	65.0 lumens	10.0 lumens / 16 hours	1.5 hours	4.50 inches	1.00 inches	2.9 ounces	1 123A

*Total runtime (at highest setting for multiple-output flashlights) until output drops below 50 lumens

SUREFIRE

L4 LUMAMAX®

Code	Max Output	Tactical Runtime*	Length	Bezel Diameter	Weight w/ Batteries	Batteries
MM SUR L4 LUMAMAX	120.0 lumens	2.0 hours	5.10 inches	1.00 inches	3.4 ounces	2 123A

*Total runtime (at highest setting for multiple-output flashlights) until output drops below 50 lumens

SUREFIRE

STRATUM™

Code	Output / Runtime			Tactical Runtime*	Length	Bezel Diameter	Weight w/ Batteries	Batteries
	High	Medium	Low					
MM SUR STRATUM™	160.0 lumens / 2 hours*	50.0 lumens / 5 hours	5.0 lumens / 75 hours	2.0 hours	5.10 inches	1.25 inches	5.5 ounces	2 123A

*Total runtime (at highest setting for multiple-output flashlights) until output drops below 50 lumens

SUREFIRE

6PX™ PRO

Code	Max Output	Low Output / Runtime	Tactical Runtime*	Length	Bezel Diameter	Weight w/ Batteries	Batteries
MM SUR 6PX PRO	200.0 lumens	15.0 lumens / 45 hours	2.0 hours	5.20 inches	1.25 inches	5.2 ounces	2 123A

*Total runtime (at highest setting for multiple-output flashlights) until output drops below 50 lumens

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MANSUETO MARINE

SUREFIRE

G2® LED

Code	Max Output	Tactical Runtime*	Length	Bezel Diameter	Weight w/ Batteries	Batteries
MM SUR G2 LED	120.0 lumens	2.0 hours	5.20 inches	1.25 inches	4.4 ounces	2 123A

*Total runtime (at highest setting for multiple-output flashlights) until output drops below 50 lumens

SUREFIRE

6PX™ TACTICAL

Code	Max Output	Tactical Runtime*	Length	Bezel Diameter	Weight w/ Batteries	Batteries
MM SUR 6PX TACTICAL	120.0 lumens	2.0 hours	5.20 inches	1.25 inches	5.2 ounces	2 123A

*Total runtime (at highest setting for multiple-output flashlights) until output drops below 50 lumens

SUREFIRE

G2X™ PRO

Code	Max Output	Low Output / Runtime	Tactical Runtime*	Length	Bezel Diameter	Weight w/ Batteries	Batteries
MM SUR G2 PRO	200.0 lumens	15.0 lumens / 45 hours	2.0 hours	5.20 inches	1.25 inches	4.4 ounces	2 123A

*Total runtime (at highest setting for multiple-output flashlights) until output drops below 50 lumens

SUREFIRE

G2X™ TACTICAL

Code	Max Output	Tactical Runtime*	Length	Bezel Diameter	Weight w/ Batteries	Batteries
MM SUR G2X TACTICAL	200.0 lumens	2.0 hours	5.20 inches	1.25 inches	4.4 ounces	2 123A

*Total runtime (at highest setting for multiple-output flashlights) until output drops below 50 lumens

SUREFIRE

A2 LED AVIATOR®

Code	Max Output	Low Output / Runtime	Tactical Runtime*	Length	Bezel Diameter	Weight w/ Batteries	Batteries
MM SUR A2 LED AVIATOR	120.0 lumens	10.0 lumens / 15 hours	2.0 hours	5.40 inches	1.13 inches	4.3 ounces	2 123A

*Total runtime (at highest setting for multiple-output flashlights) until output drops below 50 lumens

SUREFIRE

6P® LED

Code	Max Output	Tactical Runtime*	Length	Bezel Diameter	Weight w/ Batteries	Batteries
MM SUR 6P LED	120.0 lumens	2.0 hours	5.40 inches	1.25 inches	5.2 ounces	2 123A

*Total runtime (at highest setting for multiple-output flashlights) until output drops below 50 lumens

SUREFIRE

LX2 LUMAMAX®

Code	Max Output	Low Output / Runtime	Tactical Runtime*	Length	Bezel Diameter	Weight w/ Batteries	Batteries
MM SUR LX2 LUMAMAX	200.0 lumens	15.0 lumens / 30 hours	2.0 hours	5.40 inches	1.00 inches	4.2 ounces	2 123A

*Total runtime (at highest setting for multiple-output flashlights) until output drops below 50 lumens

SUREFIRE

E2D LED DEFENDER®

Code	Max Output	Low Output / Runtime	Tactical Runtime*	Length	Bezel Diameter	Weight w/ Batteries	Batteries
MM SUR E2D LED DEFENDER	200.0 lumens	5.0 lumens / 76 hours	1.9 hours	5.40 inches	1.00 inches	3.7 ounces	2 123A

*Total runtime (at highest setting for multiple-output flashlights) until output drops below 50 lumens

SUREFIRE

E2L OUTDOORSMAN

Code	Max Output	Low Output / Runtime	Tactical Runtime*	Length	Bezel Diameter	Weight w/ Batteries	Batteries
MM SUR E2L OUTDOORSMAN	60.0 lumens	3.0 lumens / 100 hours	6.0 hours	5.40 inches	1.00 inches	3.7 ounces	2 123A

*Total runtime (at highest setting for multiple-output flashlights) until output drops below 50 lumens

SUREFIRE

6P® LED DEFENDER®

Code	Max Output	Tactical Runtime*	Length	Bezel Diameter	Weight w/ Batteries	Batteries
MM SUR 6P LED DEFENDER	120.0 lumens	2.0 hours	5.50 inches	1.25 inches	5.3 ounces	2 123A

*Total runtime (at highest setting for multiple-output flashlights) until output drops below 50 lumens

SUREFIRE

KROMA® MILSPEC

Code	Max Output / Runtime	Low Setting Output / Runtime	Tactical Runtime*	Length	Bezel Diameter	Weight w/ Batteries	Batteries
MM SUR KROMA MILSPEC	Primary White: 50.0 lumens / 1.5 hours Secondary Red: 6.3 lumens / 8 hours Secondary Blue: 3.4 lumens / 8 hours Secondary Infrared: 15.0 mW / 8 hours	Primary White: 3.4 lumens / 20 hours Secondary Red: 0.5 lumens / 80 hours Secondary Blue: 0.5 lumens / 80 hours Secondary Infrared: 8.0 mW / 20 hours	1.5 hours	5.70 inches	1.47	5.1 ounces	2 123A

*Total runtime (at highest setting for multiple-output flashlights) until output drops below 50 lumens

YACHT SIGN LOGOS

YACHTSIGN

FACE MATERIALS

- Polished Stainless Steel: The finest standard, and our premium product. YACHTSIGN™ specifies 316L stainless steel manufactured by Thyssen. All steel is finished to a mirror polish with beveled and hand-polished edges to a standard customary on world-class vessels throughout the world.
- 3-D Painted Fronts: Individualize by adding depth, color and elegance. Create a unique look by varying height, profile, color and finish.
- Glossy Acrylic: The contemporary and dynamic look. This indestructible material comes in a variety of thicknesses and colors.
- Vinyl and Gold Films: The evergreen of marine lettering. A proven product with endless applications.
- Custom: Limited only by imagination – please inquire.

22k Sign Gold

Silver leaf over ¾" painted body over 1/8" black acrylic

3-D painted medium silver

3-D painted cordovan gold

3-D painted navy blue

Half round medium silver over 1/8" black acrylic

Half round gold over 1/8" black acrylic

Square vivid red over ⅛ black acrylic

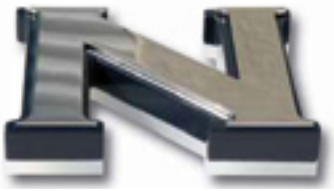
Multi tiered bevel over 1/8" black acrylic

1/8" black acrylic

Silver leaf over ¾" black square body

Multi tiered bevel painted aquq mist

Polished stainless steel over 1" painted body



The elegant three layered set-up provides depth to the design and ensures great daytime visibility.

LIGHTING OPTIONS

Three basic lighting options are available and each can be set up as backlit letters or as front lighted letters. All systems emit a spot free and harmonious light.

1. Single Color – monochrome string of LEDs in one of the following colors:
· Azure Blue · Cool White · Pure White · Old Lace White · Cream White
· True Red · Amber · Lime Green · Purple
2. Dual Color – a combination of two colored LED strings (chosen from above).
3. Multi Color (RGB) – full customizable color selection system - providing a highly variable palette of colors across a wide spectrum of harmonious light.

THE YACHTSIGN™ GUARANTEE

YACHTSIGN™ letters and scripts including all YACHTSIGN™ provided electric connections are 100% waterproof. The systems are set up to be 100% maintenance free. The applied advanced level of engineering results in a 100% reliable product. A meticulous quality control ensures that only tested and approved products are distributed.

To prove the high level of engineering YACHTSIGN™ warrants the backlit letters for **5 YEARS**.